

2020-2021



**PENN HIGH  
SCHOOL**

**Program of Studies**

## Message from the Principal

Dear Students and Parents,

Penn High School is committed to preparing its students for our rapidly changing world. Our mission is to provide an educational environment of support for students to reach their highest academic achievement, while preparing students to be responsible, healthy, contributing citizens. Penn is comprised of the interdependent Smaller Learning Communities of the Freshman Academy, the Science, Technology, Engineering, and Math Academy (STEM), Fine Arts and Communications Academy (FACA), the Management & Business Academy (MBA), the Health and Human Services Academy (HHSA) and the Penn Academy for Early College (PAEC).

Coupled with this mission is a shared responsibility among the school, student, and home to make wise choices and plan well for a 6-8+ year course of study that leads to continued education and employment after graduating from Penn High School. A successful young person needs to be knowledgeable, emotionally and physically healthy, motivated, civically inspired, engaged in the arts, and prepared for work and self-sufficiency.

This *Program of Studies* is intended as a planning tool that can assist students as they set goals and make informed plans for the future.

As you prepare for registration, you should complete these steps:

- read this *Program of Studies*,
- explore and identify plans for a career,
- develop or revise a four-year plan with the help of your counselor and parents,
- seek information about specific courses from your counselor and teachers,
- attend The Penn High School Showcase if you are a freshman, sophomore or junior.

Your counselor, teachers and parents are important sources of guidance for you as you choose courses. They can help you plan for, as well as understand, graduation requirements. They can help you use other planning resources like the Career Resource Center. Finally, they serve as important sources of experience and wisdom. Keep in mind that ultimately; the final selection of courses is yours. For that reason, you need to be an active participant in the selection of courses and development of your career plan.

The staff of Penn High School and the Board of School Trustees is committed to continuous improvement of student performance. In keeping with this charge, students are expected to deliver their best effort in the classroom, observe school rules, and respect the rights of fellow students and staff members.

Your success is our success. Your active involvement with our dedicated staff will lead to success. You are instrumental in continuing the tradition of excellence for which Penn High School is recognized.

Please let us know how we can be of assistance to you.

Sincerely,

Sean Galiher  
Principal

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## Penn High School

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Mrs. Emily Lehman	(A-K Grade 9) Counselor
Mrs. Marni Cronk	(L-Z Grade 9) Counselor
Mrs. Lynn Stratford	(A-Con 10-12) Counselor
Mrs. Sandy Hunter	(Coo-Hal 10-12) Counselor

Mr. Shane Varga	(Ham-Lan 10-12) Counselor
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Ms. Madeline Watkins	(Pa-Sk 10-12) Counselor
Ms. Janiece FitzGerald	(SI-Z 10-12) Counselor
Mrs. Megan Bidigare	Social Services Counselor

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 Sean Galiher, Principal..... (574) 258-9503  
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Attendance Reporting..... (574) 258-9501  
 Transportation Department..... (574) 258-9565  
 Athletics Office..... (574) 258-9537  
 Counseling Services..... (574) 258-9502  
 Student Services..... (574) 258-9504  
 Bookstore..... (574) 258-9596

Fine Arts & Communications Academy..... (574) 258-9515  
 Health & Human Services Academy ..... (574) 254-2874  
 STEM Academy..... (574) 258-9526  
 Exceptional Education..... (574) 258-9532  
 Management & Business Academy..... (574) 258-9528  
 World Languages ..... (574) 254-2874  
 Early College Academy..... (574) 258-9500 EXT. 20481  
 Freshman Academy..... (574) 258-9500 EXT. 20876

**Penn-Harris-Madison School Corporation**  
**Mission, Vision, and Beliefs**

**Mission**

- Our mission is to provide an educational environment for students to reach their highest academic achievement. We will prepare them to be responsible, healthy, contributing citizens who have acquired the skills to be lifelong learners ready to adapt to a changing world.

**Vision**

- Our curriculum is clearly defined, rigorous, integrated with technology, frequently assessed to reach every student, and supported by innovative teaching strategies.
- Our students are lifelong learners who demonstrate creativity, analytical problem-solving, and are engaged in positive social, emotional and healthy life skills.
- Our school climate is the result of communication and collaboration among the administration, parents, teachers, staff and students. A safe and personalized learning environment in our schools nurtures the whole child.
- Our personnel are highly trained individuals who model innovative best practices in all areas of their job assignment. Continuous opportunities for professional development are provided to support their performance at the highest level.
- Our creative and visionary leadership team exhibits responsible fiscal management that is committed to our mission and is accountable to the community.
- Our corporation seeks to collaborate with the greater Penn-Harris-Madison community in support of our mission.

**Values**

- We value learning as a priority and challenge all students to excellence through a continuous improvement model.
- We provide a healthy, safe, respectful and nurturing learning environment.
- We support continuous professional growth of a quality staff.
- We model a collaborative relationship among students, staff, and parents.
- We value community partnerships.
- We respect the uniqueness of each student.
- We demonstrate fiscal responsibility in support of our mission.

**Goals**

- Annually, all students will achieve proficiency in core academic areas as measured by state standards through multiple assessments.
- Annually, all students will demonstrate continuous academic progress through multiple assessments.
- All 10<sup>th</sup> grade students will demonstrate mastery of the proficiencies on the Graduation Qualifying Exam
- Annually, expenditures will not exceed revenues as measured by the certified budget.

**Penn-Harris-Madison School Corporation**  
**Profile of a Graduate**

A graduate of Penn-Harris-Madison School Corporation schools is expected to acquire the knowledge and skill to:

***Be an effective communicator who:***

- Reads, comprehends, and analyzes material from a variety of sources.
- Communicates thoughts and ideas through writing, speaking, and performance.
- Applies active listening skills, seeking first to understand.
- Receives and evaluates information sources across a range of mediums.
- Communicates ideas effectively using a variety of media and the latest technology.
- Recognizes the necessity to tailor communication to meet the needs of an audience both locally and globally.
- Collaborates with others.

***Be a thoughtful problem-solver who:***

- Uses basic and advanced academic, social, and technological skills to solve problems.
- Thinks critically and creatively.
- Collects, analyzes and assesses source material as an informed thinker.
- Develops, evaluates, chooses and implements solutions to problems.

***Be an effective contributor and collaborative team member who:***

- Works cooperatively.
- Resolves disputes constructively.
- Works collaboratively towards a common good, a common challenge, which involves the contribution and exchange of ideas, knowledge or resources to achieve the goal.
- Perceives divergent viewpoints and responds with understanding.
- Treats others with dignity and respect.
- Functions responsibly as a member of a family, a social group and the larger global community.

***Be a lifelong learner and contributing member of a society who:***

- Seeks learning opportunities throughout life.
- Creates a personal vision and sets attainable goals for achievement.
- Assumes personal and social responsibility for actions.
- Continually acquires new skills necessary for success in the 21<sup>st</sup> century and the global economy.

***Be a responsible citizen who:***

- Understands the ideals and responsibilities of the American heritage.
- Is dedicated to democratic values and pursues the common good.
- Upholds legal rights and civic duties.
- Safeguards universal human rights and the dignity of all people.

***Be a healthy individual who:***

- Pursues a variety of healthy interests and maintains balance among them.
- Demonstrates a commitment to physical and emotional well-being.
- Exhibits self-regulating behavior.
- Confidently pursues his/her full potential.
- Expresses emotion constructively.
- Adapts to life changes.
- Exercises both body and mind.

***Be a contemporary learner who:***

- Effectively uses information and communications technology (ICT) and information literacy.
- Learns through digital networks.
- Learns through digital means, such as social networking, ICT (information & communications technology) literacy, technological awareness and simulation.
- Functions in social networks and contributes to the development of social and intellectual capital.

**Penn High School Mission Statement**

Penn High School instills in students the knowledge, skills and abilities required to be contributing members of the global community. We educate students through exemplary educational practices, effective communication, collaboration and cooperation in a safe, non-threatening environment. We embrace diversity and inspire students to reach challenging academic goals while conducting themselves with respect, with responsibility and with integrity.

## **ACADEMIC PLANNING**

### **Planning Your Schedule**

The Program of Studies, now available online, contains a wealth of information for the scheduling process. Whether your plans for life after high school involve work, apprenticeship, military, technical college, two-year or four-year college, your choices are important. Please take the time to explore your interests and formulate a map to reach your goals. Take time to check the prerequisites required for some classes. Applications are needed for some courses.

Your schedule is a full-year commitment, so courses must be chosen carefully. Your counselor will meet with you to finalize your choices.

### **Schedule Change Policy**

It is the school's position that schedule changes after the school year begins disrupt instructional time. Since staffing and the master schedule are determined by student course selection, students are expected to honor the commitment they make when selecting courses and the spring deadline for making schedule changes. There are, however, circumstances that warrant a schedule change. Schedule change requests prior to school starting must meet at least one of the following criteria:

#### **Criteria for schedule changes:**

1. Failure to meet course prerequisites
2. Failure to meet graduation requirements.
3. Change in college or career plans.
4. Course changes due to completion of summer school.
5. Inappropriate level placement.
6. Students earning a failing grade from the teacher the previous year.
7. Incomplete Schedule - not enough classes listed on schedule.
8. Schedule Conflict – two of the student's selected courses are offered only during the same block.

#### **Criteria for schedule changes after the start of school:**

1. Extenuating circumstances, such as hardship or extended illness.
2. Changes in a course or a course level, if appropriate, are considered. The student, teacher, or parent may initiate the discussion for a course level change. In any case, and prior to any determination, the teacher, student, and parent must first have a conversation to determine the appropriate recommendation, and all three parties must sign a course level adjustment form which must be obtained from the school counselor. Academy leaders and counselors are involved as needed.
3. Course level changes must be completed as soon as possible in the semester.
4. Courses may not be changed or added after the second week of school.
5. Courses dropped after the fourth full week of school will result in a grade of W/F (withdraw/fail) on the student's transcript.
6. Requests for teacher changes will not be honored.

## Penn High School Graduation Requirements

### High School Courses Taken In Middle School

High School courses offered to middle school students are meant to supplement middle school course offerings and to prepare students for four more years of rigorous high school coursework. The Indiana State Board of Education does not restrict high school credit to course work completed in Grades 9 through 12. Schools may elect to award high school credit to students who complete high school courses before entering Grade 9 if the course is fully equivalent to its high school counterpart. Parents may choose to have high school courses taken before grade nine voided from their student's high school transcript. If parents choose this option, the student will not be given the opportunity to repeat the course at the high school level.

### Graduation Requirements

#### Indiana Core 40 Expectations

In the State of Indiana, all students entering the ninth grade are encouraged to work toward completing the requirements of a Core 40 diploma at a minimum. All Penn High School students are expected to meet the requirements of the Core 40 diploma. The Core 40 is a directed set of high school courses that will help prepare students for success, whether pursuing a career that requires four or more years of college, one or two years of post-secondary education in a business or technical college, or training through an apprenticeship program. **Indiana's Core 40 is the default diploma for all Indiana High School students.**

- Students must complete the Core 40 to be considered for admission to Indiana's four-year colleges, and the same courses are strongly recommended for admission to a two-year college or entry into the workplace.
- Students who complete the Core 40 requirements with a 2.0 GPA and who qualify for need-based financial aid may qualify for additional aid from the State of Indiana.
- Most Penn High School students take additional electives beyond their 40 required credits. Some courses not specified by Core 40 may be essential for successful completion of required academic studies.
- Please check specific colleges and universities for their world language requirements as well as their specific admissions requirements. While a world language is not a requirement for the Core 40, it may be a requirement for admission to some post-secondary institutions.
- For more details see the Graduation Requirements charts on the pages that follow.

#### Core 40 with Academic Honors Diploma

The Indiana State Board of Education has established a Core 40 with Academic Honors Diploma. The diploma is intended to bring honor to those students who choose challenging courses and accumulate at least 47 credits in high school. To be eligible for this diploma, a student must have a grade point average of "B" (3.0) or above. No grade lower than a "C" in a required class may count toward the diploma. A gold seal is placed on the diploma and the student's transcript notes the awarding of the Academic Honors Diploma.

- Students must be fully eligible at the end of the 7<sup>th</sup> semester in order to wear the academic honors hood at senior recognition night and commencement.
- In the area of world language, students must take three years of one language or two years of one language and two years of another language.
- Students who earn less than a C in a required class may retake that class with a Penn teacher or online for AHD purposes. Retaking courses does not replace the grade on the Penn High School transcript.
- For more details see the Graduation Requirement Chart for Core 40 with Academic Honors Diploma.

### **Core 40 with Technical Honors Diploma**

The Indiana State Board of Education has established a Core 40 with Technical Honors diploma. The diploma is intended to bring honor to those students who complete Core 40 requirements and a career-technical program. To be eligible for this diploma, a student must have a grade point average of "B" (3.0) or above. No grade lower than a "C" in a required course may count toward the diploma.

For more details see the Graduation Requirement Chart for Core 40 with Technical Honors Diploma.

### **General Diploma**

The core 40 is Indiana's graduation requirement. To graduate with less than Core 40, the following formal opt-out process must be completed:

- The student, parent/guardian and counselor must meet to discuss the student's progress, career and course plan.
- At this meeting, the parent/guardian determines whether the student will achieve greater educational benefits by completing the general curriculum or the Core 40 curriculum.
- If the decision is made to opt-out of Core 40, the parent/guardian and counselor will sign a Diploma Track Change form. The form will be kept on file in the Counseling Center.

Please refer to the Indiana General High School Diploma chart for further information about the general diploma.

<b>Indiana General High School Diploma</b>	
<b>Course and Credit Requirements</b>	
<b>English/Language Arts</b>	<b>8 credits</b>
	<b>English 9, English 10, English 11, English 12</b>
<b>Mathematics</b>	<b>4 credits</b>
	<b>2 credits: Algebra I 2 credits: any math course</b>

<b>Science</b>	<b>4 credits</b>
	<b>2 credits: Biology I</b> <b>2 credits: any science course</b>
<b>Social Studies</b>	<b>4 credits</b>
	<b>2 credits: U.S. History</b> <b>1 credit: U.S. Government</b> <b>1 credit: any social studies course</b>
<b>Physical Education</b>	<b>2 credits</b>
<b>Health and Wellness</b>	<b>1 credit</b>
<b>Career Academic Sequence*</b>	<b>6 credits</b>
<b>Flex Credit</b>	<b>5 credits</b>
	<p>To earn 5 Flex Credits a student must complete one of the following:</p> <ul style="list-style-type: none"> <li>● Additional courses to extend the career academic sequence</li> <li>● Courses involving workplace learning, which may include the following courses:</li> <li>● Career exploration internship</li> <li>● Professional career internship</li> <li>● Business cooperative experiences</li> <li>● Cooperative family and consumer sciences</li> <li>● Industrial cooperative education</li> <li>● Interdisciplinary cooperative education</li> <li>● Marketing field experience</li> <li>● High school/college dual credit courses</li> <li>● Additional courses in:</li> <li>● Language Arts</li> <li>● Social Studies</li> <li>● Mathematics</li> <li>● Science</li> <li>● World Languages</li> <li>● Fine Arts</li> </ul>
<b>Electives**</b>	<b>6 credits</b>
<b>40 Total State Credits Required</b>	

\* Career Academic Sequence – Selecting electives in a deliberate manner to take full advantage of career exploration and preparation opportunities.

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

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

*(updated 6/15/06)*

## CORE 40

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

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

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

## **CORE 40 With Academic Honors** *(minimum 47 credits)*

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

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

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

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

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

## Graduation Requirements Beginning With The Class Of 2023

The Great Recession in 2008 had profound impacts on our economy. While jobs are back, they are not the same ones lost during the recession. The Georgetown University Center on Education and the Workforce report demonstrated that over 95% of jobs created during the recovery have gone to workers with at least some college education, while those with a high school diploma or less are being left behind. The high school diploma is what gets students started; it's no longer the finish line. Students need to be equipped for a more demanding job market and postsecondary opportunities that differ from the status quo of a graduation test.

Until recently, Indiana's approach to graduation requirements was a one-size-fits-all approach requiring every student to pass graduation qualifying exams (ISTEP). This approach required students who did not pass these exams to take remedial classes to prepare for and retake them. While these remedial classes were designed to help students, it frequently prevented students from taking classes that would help prepare them for college and career opportunities after high school. This requirement is still in effect for the graduating classes of 2019-2022.

With the passage of Graduation Pathways, students are now able to individualize their graduation requirements to align to their postsecondary goal. No longer must all students fit into the same academic mold, but rather, they can choose the options that best meet their postsecondary needs and aspirations. Students can create pathways that serve their educational interests and prepares them for postsecondary educational and career opportunities. Overall, this plan ensures that students are truly prepared to be successful in whatever they want to pursue after high school.

Beginning with the graduating class of 2023, students must satisfy at least one option from each of the three boxes listed in the table below in order to graduate. However, the graduating classes of 2019-2022 may satisfy graduation requirements by opting into the new Graduation Pathways if they did not meet the ISTEP requirement for graduation during the sophomore year.

Students may use the courses listed in the Penn High School Program of Studies that have been approved by the P-H-M School Board when completing the 40 credits required for graduation. Also, the board recognizes courses approved by the College Board, the Elkhart Area Career Center, as well as college and university courses for which students receive dual credit, and courses as specified by Indiana Code.

Penn High School will offer courses it deems relevant to the educational goals of the Penn-Harris-Madison School Corporation and its students. These offerings will be contingent upon budgetary constraints, staff availability, and minimum student enrollment for such courses.

**Please see the Graduation Requirement Charts for specific requirements.**

### **Penn High School Graduation Requirements (Starting with Class of 2023)**

Requirements	Graduation Pathway Options
<b>1) High School Diploma</b> (Students must complete the course requirements for one of the following diplomas.)	<ul style="list-style-type: none"><li>• Core 40 designation;</li><li>• Academic Honors designation;</li><li>• Technical Honors designation;</li><li>• General Diploma</li></ul>

<p><b>2) Learn and Demonstrate Employability Skills</b>            (Students must complete <u>at least one</u> of the following employability experiences.)</p>	<p>Learn employability skills standards through locally developed programs. Employability skills are demonstrated by <u>one</u> the following:</p> <ul style="list-style-type: none"> <li>● <b>Project-Based Learning Experience</b>; OR</li> <li>● <b>Service-Based Learning Experience</b>; OR</li> <li>● <b>Work-Based Learning Experience</b>.</li> </ul>
<p><b>3) Postsecondary-Ready Competencies</b>            (Students must complete <u>at least one</u> of the following.)</p>	<ul style="list-style-type: none"> <li>● <b>Honors Designation</b>: Fulfill all requirements of either the Academic or Technical Honors designation; OR</li> <li>● <b>ACT</b>: Minimum score of 18 in English, 22 in Math and 23 in Science; OR</li> <li>● <b>SAT</b>: Minimum score of 480 in English and 530 in Math; OR</li> <li>● <b>ASVAB</b>: Earn at least the minimum AFQT score of 31 to qualify for placement into one of the branches of the US military; OR</li> <li>● <b>State- and Industry-recognized Credential or Certification</b>; OR</li> <li>● <b>Federally-recognized Apprenticeship</b>; OR</li> <li>● <b>Career-Technical Education Concentrator</b>: Must earn a C <u>average</u> or higher in at least two advanced courses in a career pathway (see Appendix for Career Pathways); OR</li> <li>● <b>AP®/IB/Dual Credit/ Exams</b>: Must earn a C <u>average</u> or higher in three courses.</li> </ul>

## Smaller Learning Communities (SLCs)

Penn High School has six Smaller Learning Communities (SLCs). The benefits of our SLCs include:

- Increased student attendance
- Increased student engagement
- Greater student achievement
- Increase in student positive behavior

## Freshman Academy

The Freshman Academy at Penn High School has been in place for over a decade. It was established with the purpose to help students acclimate to a large high school while giving smaller learning community support to ensure that all students thrive, graduate, and feel part of the greater school community. Penn High School can offer students the opportunities of a large school, with the personalization and strong relationships of a small school. Students are placed within teams and share the same core teachers (Math, English, Biology and Geography). Freshmen are encouraged to explore their interests and sign up for a large array of electives. The teacher teams utilize a common time to meet and discuss student concerns while looking to grow professionally in the context of the whole child. This endeavor is supported by dedicated freshmen counselors. The transition to high school is assisted by upperclassmen who work as freshman mentors meeting with freshmen in small groups throughout the first semester. Each core subject teacher meets in a professional learning community (PLC) to develop academically appropriate lessons as well as formative and summative assessments. All teachers are further supported by a reading coach, a math enrichment coach, and a literacy specialist. Adding to this professional team are physical education teachers who help with structuring fitness and movement to improve cognition. From the first day of school, students know they are part of a smaller learning community at Penn. They develop an identity and forge relationships with adults and students within their house.

## Achievement Academies

After the freshman year, students choose one of four achievement academies, the Health and Human Services Academy, Fine Arts and Communications Academy, Science, Technology, Engineering and Math (STEM) Academy or the Management and Business Academy. We know that students in these academies will also realize the same benefits they saw in the freshman academy. The achievement academies were designed by students, parents, teachers, administrators, and community members to help students bridge the gap between high school and the myriad of post-secondary options. Each of the achievement academies will help students concentrate their efforts on making a meaningful senior year with classes and projects designed specifically for each student. During the scheduling process each freshman will elect one of the four academies:

- The Fine Arts and Communications Academy
- The Health and Human Services Academy
- The Management & Business Academy
- The Science, Technology, Engineering and Math (STEM) Academy

The Achievement Academies at Penn High School have been designed to bring focus, rigor and relevance to students' high school course of study. Based on Federal and State Career Pathways models, students may choose one of four academies in which to study their sophomore, junior and senior years. Students will begin to consider the focus of their high school education when they complete their four year plan in the eighth grade. Students will choose their desired diploma-Core 40, Core 40 with Academic Honors, or Core 40 with Technical Honors and select courses that meet those requirements. Students will select their Penn Achievement Academy in Preparing for College and Careers (PCC) class.

Selection of an academy will not limit the courses a student may take. Students in each academy will be supported by a group of teachers in that academy, as well as community partners, to create an individualized learning plan that helps each student with his/her post-secondary goals.

Students will be required to take a minimum of one elective within an academy per semester, beginning their sophomore year. Most students will select additional courses within their chosen academy to individualize their education to specific pathways related to post-secondary plans. Students will be encouraged to seek Capstone Courses and Work-Based Learning experiences, which include Registered Apprenticeship, Cooperative Education, Internship, School Based Enterprise, or Service Learning.

## Early College Academy

The Penn Academy for Early College is a program designed to offer students a unique opportunity to begin working toward college requirements while simultaneously fulfilling graduation courses at Penn High School. Penn High School is partnered with Ivy Tech Community College to offer a selection of courses, including dual credit courses, that can potentially earn a student college credits up to an Associate's Degree by the time the student graduates from Penn High School. The yearly sequence of courses for the Penn Academy of Early College student is specific and required. Students may select any elective courses when available.

The Penn Academy for Early College serves the needs of students who need extra support and guidance in order to prepare and pursue post-secondary educational opportunities. Most students are identified as potential candidates for this program in middle school based on specific criteria. Students may only select courses in the academy if they are members of the academy at the beginning of their freshman year. The Penn Academy for Early College is a four-year commitment.

## Work-Based Learning

Penn High School encourages students to explore career pathways, and choose courses on a pathway that aligns with their future interests and post-secondary ambitions. Juniors and seniors who have earned a minimum of 4 credits on a related pathway have the opportunity to participate in Work-Based Learning (WBL). These experiences can include both inside and outside of the building components. Examples of WBL are:

- Registered Apprenticeship
- Professional Work Based-Management & Business
- Internship
- School-Based Enterprise
- Service Learning

Students may apply in the Counseling Office. Please be prepared to self-report the pathway courses you have completed, which qualify you for this experience.

## A student's four year plan will include these areas:

Grade 9	Grade 10	Grade 11	Grade 12
<i>Freshman Academy</i>	<i>Achievement Academy</i>	<i>Achievement Academy</i>	<i>Achievement Academy</i>
English 9 (Honors)	English 10 (Honors)	English 11 (Honors, AP®)	English 12 (ACP, AP®, Ivy Tech)
Math (Honors)	Math (Honors)	Math ( AP®)	Math/Elective (ACP/ AP®)
Biology (Honors)	ICP or Chemistry (H)	Science	Science/Elective
Geography & History of the World (Honors)	Health/Elective	US History (AP®/ACP/Ivy Tech)	Government/Economics (AP®/ACP/Ivy Tech)
Physical Education	AA Elective	AA-Elective	AA-Elective
Elective	Elective	Elective	Elective
Elective	Elective	Elective	Elective
Study Hall/PCC & Intro to Communications	Study Hall/Interactive Media	Study Hall/ Work-Based Learning	Study Hall/Work-Based Learning

## Graduation Exams

The following is the information released from the Indiana Department of Education. More information will be made available as it is released.

- Starting with the class of 2019, students are required to take ISTEP+ exams in math, English, and science. All students in grade 10 will take the math and English ISTEP+ and any student enrolled in Biology I, regardless of grade, will take the science ISTEP+. Passing the math and English ISTEP+ exams will serve as a graduation requirement for the graduating classes of 2019-2022. Students in the graduating classes of 2019-2022 must meet the ISTEP requirement. However, students may elect to opt-in and complete a Graduation Pathway if they are unsuccessful on the ISTEP during their sophomore year. Graduation pathways will be required starting with the class of 2023. Information about Graduation Pathways is included in the diploma section of the Program of Studies.

## Remediation Policy for ISTEP+

The Penn-Harris-Madison School Corporation is committed to providing additional services to students who demonstrate academic deficiency. Students whose performance levels on the ISTEP+ fall below the proficiency level as set by the State of Indiana are considered to be at risk of not meeting graduation requirements. Additionally, students who show poor progress on off-level testing and in academic performance in the classroom are also at risk and need to be provided additional educational opportunities.

Students entering the ninth grade who have scored below the mathematics standard will be required to enroll in a specific program designed to meet basic math skills.

Students who have not passed their graduation ISTEP+ will be required to participate in specific remedial activities designed to improve their scores. However, Indiana's approach to graduation requirements requiring every student to pass a graduation qualifying exam will end with the class of 2022. Students in the graduating classes of 2019-2022 must meet the ISTEP requirement or complete a Graduation Pathway. Graduation pathways will be required starting with the class of 2023.

## Assessment Philosophy

All students should know that:

- They will receive grades that are based upon multiple forms of assessment, such as tests, quizzes, projects, reports, collaborative work, presentations, laboratory reports and writing assignments.
- The way grades will be determined will be explained at the beginning of the course and with each assignment.
- Assessment practices will measure the extent to which a student has attained the standards of the course.
- They will have opportunities to produce work of which they are proud and, at the teacher's discretion, opportunities will be given for self-correction and resubmission of work.
- They will have opportunities to know which test items they missed and why their answers were unacceptable.
- They will receive ample feedback to know how well they are doing and whether they should make changes in what they are doing.

## Grading Standards for Penn High School

- Student progress may be monitored by using Skyward.
- Report cards are issued at the end of each semester. The letter grades listed below are used to designate the student's progress.
- Only semester grades are recorded on the permanent record and student's official transcript.
- Penn High School is on a four point system to determine grade point average and all course grades are included in the grade point average.

### GRADE      GRADE POINT VALUE

A	4.0
B	3.0
C	2.0
D	1.0
F	0.0
W/F	0.0
N	Not calculated

## Weighted Grades

Advanced Placement® (AP®) courses will be weighted on a 5.0 scale. Advanced College Project (ACP) courses will also be weighted on a 5.0 scale when students earn an A, B or C for the semester. Dual-credit classes and certain designated classes will be weighted on a 4.5 scale.

AP® and ACP classes will be weighted as follows:

### GRADE      GRADE POINT VALUE

A	5.0
B	4.0
C	3.0
D	N/A
F	N/A

The following courses will be weighted on a 5.0 scale for the 2020-21 academic year:

- All Advanced Placement® (AP®) courses
- All Advance College Project (ACP) courses

Students must complete weighted courses with a grade of 'C' or better and complete the accompanying exam or performance assessment in order to receive the weighted credit.

Dual-credit classes and certain designated classes will be weighted on a 4.5 scale.

The following courses will be weighted on a 4.5 scale for the 2020-21 academic year:

- Symphonic Winds
- Symphonic Choir
- Advanced Orchestra
- Advanced Jazz Band

- Medical Statistics
- All dual-credit classes
- Automation Robotics I and II and FIRST Robotics Internship

Students must complete weighted courses with a grade of 'C' or better and complete the accompanying exam or performance assessment in order to receive the weighted credit.

GRADE	GRADE POINT VALUE
A	4.5
B	3.5
C	2.5
D	N/A
F	N/A

### **Incompletes Due to Excessive Absences**

Students who receive a grade of "Incomplete" must complete necessary make-up work no later than the first ten days of the subsequent grading period. Students who receive a grade of Incomplete because of prolonged illness or unusual circumstances must obtain approval from the Director of Counseling Services before the end of the ten-day period to extend the deadline.

### **Withdrawing from a Course**

Any course withdrawals after the fourth full week of the semester will result in a grade of "W/F" (Withdraw/Fail).

### **Course Repeats**

A student may want to repeat a course for no additional credit to meet necessary prerequisites in order to continue with the next course level in a sequence of courses. A student who receives a grade below a C may retake a course to re-qualify for the Academic Honors Diploma and/or Technical Honors Diploma. The repeated course is also calculated in the GPA but credit is earned only once for a course.

### **Report Cards**

Report cards are issued soon after the close of each semester.

### **Summer School**

Summer school information will be listed on our Penn High School website as it becomes available. Please visit us there at [penn.phmschools.org](http://penn.phmschools.org).

## **Skyward**

Parents have access to Skyward on their personal computer. A password for the site is issued by the school. Both grades and attendance information are available to you with Skyward. Access Skyward through this link: <https://skyweb.phmschools.org/StudentSTS/>.

## **Commencement Participation Policy**

Students must be within seven credits of completing all graduation requirements by the end of the first nine weeks of the second semester of their senior year to participate in the commencement ceremony.

## **NCAA and NAIA Eligibility Centers**

- Register with the Eligibility Center in the junior year.
- Policies are different for all Divisions I, II, III, NAIA.
- The NCAA Eligibility Center covers Division I and II only.
- Students can pick up materials in the Counseling Center Career Resource Room.

Please consult the NCAA Clearinghouse web page for the most current information about preparing to participate in Division I or II college sports at: [www.eligibilitycenter.org](http://www.eligibilitycenter.org)

NCAA approved courses are signified with 

NAIA information can be found at: [www.playnaia.org](http://www.playnaia.org)

Penn High School CEEB Code: 152347

## **Fees**

Most student fees are course-specific and vary depending on the amount of consumable supplemental supplies needed to support mastery of learning objectives. Those fees are listed in the fee appendix. In addition, all students are charged a digital fee of \$22.50 to cover digital learning resources.

## **COUNSELING SERVICES**

Web Address: <http://penn.phmschools.org>

## **Mission Statement**

In partnership with parents and the community, the Penn High School Counseling Center is committed to keeping students a priority and focusing on their health, well-being and educational growth. Through activities and programs, our students will

find the services they need to pursue goals in their future. It is our goal to help students become responsible, contributing citizens.

### **Your Counselors**

Penn High School has ten counselors. Two are assigned to our Freshman Academy, while six are assigned alphabetically to the upper three classes. Our Director is the counselor for students in alternative education settings - Pennway and Night School. All of the counselors at Penn High School meet the standards and licensing requirements for *School Counselor* by the State of Indiana, hold a master's degree in Counseling and keep their licenses current. Two staff members are licensed by the Indiana Health Professions Bureau as Mental Health Counselors.

Please visit us on the Web to learn more about Counseling Services at Penn.

### **SAT® and ACT**

Most traditional four-year colleges require the SAT® or ACT as part of their admissions process.

- Registration for either test may be completed by using the paper registration form or by using the online registration service at collegeboard.com for the SAT® or act.org for the ACT.
  - **Registration, test dates and test sites are determined by the testing companies. They develop and score their own tests.**
  - A description of each test and a comparison of the two tests can be found on the Counseling page of the Penn-Harris-Madison website.
  - We advise juniors who are currently taking geometry to take the SAT®/ACT in the spring of their junior year.
  - We advise juniors who have already completed geometry to take the SAT®/ACT any time during the junior year.
- If you have a question about your registration, scoring or score reports contact the College Board or ACT directly.
  - Students who have an Individual Education Plan (IEP) must complete a College Board/SSD or ACT accommodations request application two to three months before a test date. This procedure will be a point of discussion at annual case conferences.
  - Test scores are sent to the student and the four colleges the students request on their registration form.
  - When applying to colleges and universities the student is responsible to contact ACT.org or Collegeboard.com to request that the scores be sent. Scores are not on the Penn transcript.
  - Students are advised to be at the test site early with sharpened pencils, a picture ID and proof of registration.
  - No electronic devices are permitted during testing.
  - Athletes must report SAT® or ACT scores directly to the NCAA Eligibility Center. Use the '9999' number under the 'sending scores area' in the school section of the registration form so that your "official scores" will be sent to the Eligibility Center. The Eligibility Center will no longer accept scores from the high school. For more information, go to the section on NCAA.
  - In order to be formally recruited or to make an official campus visit a college must have your SAT® or ACT results and a high school transcript.

### **College Application Procedures**

Penn High School participates in the Parchment electronic transcript service and the use of the Common Application. Both are secure online systems that allow students to order transcripts electronically. Our staff sends the requested transcripts and the Secondary School Report to the colleges and universities requested by the student. With the Common Application,

students must invite their alphabetically assigned counselor as a recommender for this process to be completed. All students sending transcripts must log on to Parchment from the PHM Counseling website and register. This is a free service. Students are notified when the transcript has been sent and when the transcript has been received.

**You must allow 10 school days for the Secondary School Report portion of the eTranscript to be completed.**

Step 1 Fill out the application on-line.

Step 2 Log on to Parchment e-Transcript at the PHM website and register as a new student. If using the Common Application, invite your counselor to initiate this process.

- Request that a transcript and a Secondary School Report (SSR) be sent to the school to which you are applying.
- Attached to this SSR will be a Penn High School Profile and letters of Recommendation if sent to our office electronically.

Step 3 If you have not already requested that the Collegeboard.org or ACT.org send your scores to this college, now. ACT/SAT® scores are not on the Penn High School Diploma.

## **AWARDS**

### **Honor Roll**

Students who earn between a 3.0 and a 3.49 grade point average with no grade below C are eligible for the Honor Roll.

### **High Honor Roll**

Students who earn between a 3.5 and 3.75 grade point average with no grade below C are eligible for the High Honor Roll.

### **Academic Excellence**

Students who earn a 4.0 grade point average are eligible for Academic Excellence.

### **Academic Letter**

An academic letter will be awarded to all students with a cumulative GPA >3.50 after their fourth and sixth semesters. The letter, with a lamp of knowledge, will be white with black and gold trim. Qualifying students who received letters after the fourth semester will receive a chevron after the sixth semester. The chevrons will match the academic letter in color and design. Academic letters will be presented in a public ceremony every January or February.

## National Honor Society

Teachers at Penn participate in the selection of students that are juniors or seniors for National Honor Society, a national organization for the recognition of outstanding students. Membership in National Honor Society is an honor and is based equally upon scholarship (3.5 minimum), leadership, service and character.

## Graduation with High Honors

Students are eligible to be recognized as a graduate with High Honors based upon earning a 3.5 or above Cumulative GPA with no grades below a C. Students must be fully eligible at the end of the 7<sup>th</sup> semester in order to be recognized at senior recognition night and commencement.

## Latin Honors System

Penn High School will transition to a Latin Honors System beginning with the graduating class of 2020. Students can receive the designation of Summa Cum Laude, Magna Cum Laude, and Cum Laude based on minimum GPA requirements. Students must have already completed seven semesters and/or be on track to receive an Academic or Technical Honors diploma at the time of graduation to receive a Latin designation.

Latin Designation	GPA Minimum	Required Diploma Type	Definition
Cum laude	3.75	Core 40	With praise
Magna cum laude	4.00	Academic or Technical Honors	With high praise
Summa cum laude	4.25	Academic or Technical Honors	With highest praise

Recognition	Who	2021	2022	2023
Latin Honors Designation in Commencement Program	All Laude	x	x	x
Graduation Recognition	All Laude	x	x	x
Graduation Speakers	Valedictorians	x	x	x
Transcript	All Laude	x	x	x
Remove Rank from transcript and report card	All Students			x

## Scholarships

A large number of Penn students seek scholarships each year. Students and parents annually are given information concerning the College Entrance Examination Board and the National Merit Scholarship Qualifying Test (PSAT/NMSQT®). We strongly recommend that juniors take the PSAT and the SAT. Sophomores are encouraged to take the PSAT as well. The junior year PSAT test is the only qualifying test for the National Merit Scholarship Competition.

Colleges, businesses and industry, as well as civic, fraternal and educational groups offer other scholarship opportunities. In each of the past two years, Penn students have gathered over eight million dollars in scholarship monies. Some of the

awards require an examination; others require a written application or an interview. Students should consult with their counselor and visit the Scholarship area in the College/Career Resource Center for more information. A list of scholarship applications available in the CCRC is available at the Counseling Web page and can also be accessed through Twitter by following @PennScholarship. **Students and parents are encouraged to do their own free scholarship search on any one of a number of scholarship sites available on the Internet.**

## **SPECIAL PROGRAMS**

### **Early Graduation**

Any student who wishes to graduate early must confer with their parents and counselor. Parents will be asked to send written permission that includes their approval, signature and date. Junior courses (English 11 and US History) will be completed in summer school prior, or Night School during the student's final year of high school.

There is a new scholarship for students who graduate from a publicly supported high school at least one year early, after December 31, 2010. The Mitch Daniels Early Graduation Scholarship awards student who qualify \$4,000 toward tuition and fees, and can be used at any eligible Indiana college.

### **Advanced Placement® (AP®)**

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Advanced Placement® courses are taught at the college level. They afford students an opportunity to earn high school credit as well as college credit and/or appropriate placement at the college level. In order to receive weighted credit and Advanced Placement® designation on transcripts, students must successfully complete both semesters of the Advanced Placement® course and complete the Advanced Placement® examination in that course. Students who choose to take an AP® course outside of Penn must also take the corresponding AP® examination to receive weighted grade/credit. In order to earn college credit, a student must attain a specific score on a national standardized examination, and attend one of the many colleges and universities who recognize students' participation in the College Board's Advanced Placement® Program. By selecting an AP® class during spring scheduling a student is making a firm commitment to complete this course the following school year.

**Students enrolled in an AP® course are required to take the related national Advanced Placement® examination in the spring.**

The estimated fees for Advanced Placement® exams are in the Fee Appendix. These are determined and set each year by The College Board® and are subject to change after this printing.

**The following AP® courses are typically offered at Penn High School:**

AP® Art History  
AP® Biology  
AP® Calculus AB  
AP® Calculus BC  
AP® Capstone  
    (AP® Seminar & AP® Research)  
AP® Chemistry  
AP® Chinese

AP® Comparative Government & Politics  
AP® Computer Science Principles  
AP® Economics: Micro & Macro  
AP® English Language and Composition  
AP® English Literature and Composition  
AP® Environmental Science  
AP® European History  
AP® French

AP® German  
AP® Human Geography  
AP® Music Theory  
AP® Physics I (C:Mechanics)  
AP® Physics II (C:Electricity & Magnetism)  
AP® Physics - Algebra Based  
AP® Psychology  
AP® Spanish

AP® Statistics  
AP® Studio Art: 3-D Design  
AP® Studio Art: Drawing  
AP® Studio Art: Painting  
AP® Studio Art: Photography  
AP® U.S. Government & Politics  
AP® U.S. History

### **Advance College Project (ACP)**

High School-based courses offered for dual credit through Indiana University. These courses are noted in the course descriptions using the  symbol.

ACP Biology  
ACP Brief Survey of Calculus  
ACP Cadet Teaching Experience  
ACP Calculus I  
ACP Calculus II  
ACP Composition & Literature  
ACP Political Science  
ACP Principles of Business Management  
ACP US History  
ACP Microeconomics  
ACP Macroeconomics

### **Dual Credit Courses**

High School-based courses offered for dual credit through Purdue University , Ball State University , or Ivy Tech Community College . These courses are noted in the course descriptions using the associated symbols.

### **Project Lead the Way Classes**

Project Lead the Way (PLTW) classes will fulfill requirements for the Academic and Technical Honors Diplomas. Most classes listed below will meet the dual high school/college course credit requirement. The classes listed below also meet the requirements for the Directed Electives. All PLTW classes are based on national standards for math, science, communications and technology. Additional information can be found on the Project Lead the Way website PLTW.org.

#### **Engineering:**

- Introduction to Engineering Design (9-12)
- Principles of Engineering (10-12)
- Digital Electronics (10-12)
- Civil Engineering & Architecture (10-12)
- Aerospace Engineering (11-12)
- Engineering Design & Development (12)

#### **Biomedical Science:**

- Principles of Biomedical Sciences (9-12)

- Human Body Systems (10-12)
- Medical Interventions (11-12)
- Biomedical Innovation Capstone (12)

Computer Science:

- Introduction to Computer Science (9-12)
- AP® Computer Science Principles (11-12)

## Elkhart Area Career Center (EACC)

The Elkhart Area Career Center offers a variety of career and technical education programs intended to provide the student with the skills necessary to directly enter the job market after graduation or provide preparation for more advanced study at a technical school. The programs are available only to juniors and seniors. Tuition for the Elkhart Area Career Center programs is paid for by the PHM system. Once a student commits to an EACC program it is expected that they finish the year.

Interested students need to:

- Return a completed application to the Penn Counseling Office. Applications are available in the Guidance Office.
- (First Year Students Only) Attend the EACC Open House. The open house is intended to inform students of the available programs and to help the student make an informed decision about making this type of commitment.
- Be aware of equipment, supplies and uniforms, which might be required for the course for which they are applying. Financial assistance is available.
- Make sure that their schedule for class in the upcoming school year includes the Elkhart Area Career Center.

Acceptance into the EACC program will be based upon space availability, academic progress, attendance and behavior. Students must apply annually to the EACC for acceptance.

A detailed description of the courses offered at the Elkhart Area Career Center is available in the reception area of the Counseling Office.

### Elkhart Area Career Center Program Clusters

Go to [www.myeacc.org](http://www.myeacc.org) for detailed information. Course numbers listed are AM/PM classes.

#### Business Technology

- **Computer Networking/PC Maint. I & II 1433/1434-1533/1534** (DOE course: Computer Technology Support I - 5230 & Networking II-Servers II - 5257)

#### Graphics and Media

- **Commercial Photography I & II 1405/1406-1505/1506** (DOE course: Commercial Photography -5570 & Graphic Design & Layout - 5550)
- **Interactive Media 1461/1462** (DOE Course: Interactive Media 5232)
- **Graphic Design I & II 1413/1414-1513/1514** (DOE course: Graphic Design & Layout/Graphic Imaging & Technology - 5550/5572)
- **Audio/Video Production I & II 1421/1422-1521/1522** (DOE course: Radio & Television I & II-5986/5992)

#### Manufacturing and Engineering

- **Mechanical Drafting & Design I & II 1439/1440-1441/1442** (DOE course:

*Mechanical Drafting & Design I & II - 4836/4838)*

- **3D Computer Animation & Visualization 1539/1540** (DOE course: *3D Computer Animation & Visualization 5530*)
- **Mechatronics I & II 1483/1484 & 1583/1584** (DOE course: *Industrial Technical Maint 5686 & 5688*)
- **Manufacturing Technology I & II 1407/1408-1507/1508** (DOE course: *Precision Machining I & II - 5782/5784*)
- **Welding 1419/1420-1519/1520** (DOE course: *Welding Technology I & II - 5776/5778*)
- **Automation & Engineering Technology I & II 1493/1494-1593/1594** (DOE course: *Industrial Automation & Robotics I & II - 5610/5612*)

### **Service Industry**

- **Intro to Health Careers 1427/1428** (DOE course: *Health Science Education I - 5282*)
- **Medical Assisting I & II 1411/1412-1511/1512** (DOE course: *Health Science Education I & Health Science II - Special Topics - 5282/5286*)
- **Cardiology I & II 1455/1456-1457/1458** (DOE course: *Health Science II Special Topics 5286/Emergency Medical Services - 5210*)
- **Pre-Nursing w/CNA Concentration 1445/1446** (DOE course: *Health Science II-Nursing - 5284*) Seniors only
- **Careers in Sports Medicine I 1474/1475** (DOE course: *Health Science II: Athletic Training - 5290*)
- **Careers in Sports Medicine II 1574/1575** (DOE course: *Health Science II Special Topics: Athletic Training - 5286*)
- **Early Childhood Education I & II 1431/1432-1531/1532** (DOE course: *Early Childhood Education I & II - 5412/5406*)
- **Education Professions I & II 1476/1477-1576/1577** (DOE course: *Education Professions I & II 5408/5404*)
- **Cosmetology I & II 1401/1402-1501/1502** (DOE course: *Cosmetology I & II 5802/5806*)
- **Firefighting 1486/1487** (DOE course: *Fire & Rescue I - 5820*)
- **EMT: Emergency Medical Technician 1488/1489** (DOE course: *Emergency Medical Services - 5210*)
- **Law Enforcement 1491/1492** (DOE course: *Criminal Justice I - 5822*)
- **CSI: Crime Scene Investigation 1467/1468** (DOE course: *Criminal Justice II Advanced - 5824*)
- **Culinary Arts & Hospitality I & II 1415/1416-1417/1418** (DOE course: *Culinary Art & Hospitality I & II - 5440/5346*)
- **Dental Health Careers 1470/1471** (DOE course: *Dental Health Careers - 5203*)
- **Creative Outdoor Management I & II 1435/1436-1535/1536** (DOE course: *Landscape Management I & II 5136/5137*)
- **Veterinary Careers I & II 1443/1444-1543/1544** (DOE course: *Veterinary Careers I & II - 5211/5212*)

### **Transportation**

- **Agriculture Mechanics 1403/1404** (DOE course: *Agriculture Power Structure & Technology - 5088*)
- **Automotive Service Technology I & II 1478/1479-1480/1481** (DOE course: *Automotive Service Technology I & II - 5510/5546*)
- **Automotive Refinishing 1497/1498** (DOE course: *Automotive Collision Repair II - 5544*)
- **Motorcycle/Outdoor Power Technology I & II 1423/1424/1523/1524** (DOE course: *Recreational & Mobile Equipment I & II - 5842/5844*)
- **Diesel Service Tech I & II 1451/1452-1551/1552** (DOE course: *Diesel Service Technology I-5620/5624*)
- **Automotive Collision Repair 1453/1454** (DOE course: *Automotive Collision Repair I - 5514*)

### **Construction**

- **Construction Trades I & II 1466/1464-1566/1564** (DOE course: *Construction Trades I & II 5580/5578*)

## **ADVANCED CAREER TECHNICAL EDUCATION (CTE) PROGRAM**

A College Based Dual Credit Program:

Penn students may participate in a supplemental postsecondary educational program if eligibility requirements are met. A junior or senior attending Penn High School may enroll in postsecondary credit classes at approved institutions and earn high school credit as well as post-secondary credit. Counselors will provide students with information on the application procedure if requested.

Juniors and Seniors

(All Listed Courses are Tuition Free for Penn Students)

*These courses are weighted on a 4.5 scale if a "C" or better is earned.*

Academic & Technical Honors Diploma: All classes from Bethel, IUSB, Ivy Tech Community College, Purdue Polytechnic Institute and Southwestern Michigan College may be applied to the requirements for these Honors Diplomas.

CORE 40: All classes listed may be applied as Directed Electives for the CORE 40 Diploma.

**Students may take dual credit classes at Bethel, IUSB, Ivy Tech, Purdue Polytechnic or Southwestern Michigan. The classes listed below are a sampling of those courses that are offered. Students must work with Mrs. Ball and the Post Secondary Institute for scheduling, requirements, and expectations. Please feel free to contact Mrs. Ball at [mball@phm.k12.in.us](mailto:mball@phm.k12.in.us) with any questions you may have.**

### **Business Administration**

<input type="checkbox"/> Introduction to Business	<input type="checkbox"/> Income Tax	<input type="checkbox"/> Microcomputer Operating Systems
<input type="checkbox"/> Business Law	<input type="checkbox"/> Payroll Accounting	<input type="checkbox"/> Network Fundamentals
<input type="checkbox"/> Business Communication	<input type="checkbox"/> *Intro to Microcomputers	<input type="checkbox"/> *Introduction to Computing
<input type="checkbox"/> Principles of Management	<input type="checkbox"/> Information Systems Fundamentals	<input type="checkbox"/> Introduction to Programming
<input type="checkbox"/> Principles of Marketing	<input type="checkbox"/> Logic, Design, Programming	
<input type="checkbox"/> Financial Accounting	<input type="checkbox"/> Web Site Development	
<input type="checkbox"/> Managerial Accounting		

### **Information Technology Management**

Various classes

### **Communication**

<input type="checkbox"/> Intro to Public Relations	<input type="checkbox"/> *Intro to Mass Communications
<input type="checkbox"/> Intro to Interpersonal Communications	<input type="checkbox"/> Introduction to Advertising

### **School of Public & Social Services**

<input type="checkbox"/> *Intro to Criminal Justice Systems	<input type="checkbox"/> Sanitation and First Aid
<input type="checkbox"/> Introduction to Criminology	<input type="checkbox"/> Basic Food Theory and Skills
<input type="checkbox"/> Introduction to Law Enforcement	<input type="checkbox"/> Youth and Family Treatment
	<input type="checkbox"/> *Introduction to Interpersonal Communication

### **Early Child Education**

- Intro to Early Childhood Education
- Nutrition, Health and Safety for Early Childhood
- Understanding Special Needs Children
- Curriculum in Early Childhood Classroom

### **School of Fine Arts and Design**

- Basic Photography
- Three-Dimensional Design
- Design Theory
- Drafting and Construction
- Introduction to Interior Design
- Fundamentals of Design
- Fundamentals of Imaging
- Video and Sound
- Intro to Computer Graphics
- Production in Editing

### **School of Health Sciences**

- Health, Safety & Nutrition
- \*Medical Terminology
- Dementia Care
- CNA (Certified Nursing Assistant-Seniors only)
- Medical Law & Ethics
- Introduction to Health Careers
- \*First Aid & Emergency Care
- \*Nutrition for Health

### **School of Liberal Arts & Sciences**

- Survey of Biotechnology
- Fundamentals of Nanotechnology

### **School of Technology Automotive**

- Steering and Suspension
- Two and Four Wheel Alignment
- Powertrain Service
- Engine Principles and Design
- Engine Performance I
- Electrical and Electronics I
- Braking Systems
- Electrical and Electronics II
- Manual Drivetrains
- Engine Repair
- Automatic Transmission
- Engine Performance II
- Engine Performance III
- Driveability Diagnosis

### **Design Technology**

- Technical Graphics
- CAD Fundamentals
- Mechanical Graphics
- Architectural Design I
- Descriptive Geometry
- Construction Materials and Specifications

### **Electronics and Computer Technology**

- Intro to Electronics and Projects
- Digital Fundamentals
- Networking
- Computer Troubleshooting
- Computer Troubleshooting II
- Introduction to Robotics
- Programmable Controllers I
- Programmable Controllers II

### **Industrial Electrician**

- Computer Fundamentals for Technology
- Intro to National Electrical Code
- Electrical Wiring Fundamentals/
- NEC Code

- Motors and Motor Controls
- Basic Electricity
- Electrical Circuits

- Heating Fundamentals
- Refrigeration
- Duct Fabrication & Installation
- Heat Pump Systems
- Heating Service

- Refrigeration II
- Basic Electricity
- Basic Shop Mechanics
- Special Topics-Residential
- Wiring

- Technical Graphics Communication
- Human Behavior in Organizations
- Materials & Processes I
- Materials & Processes II

#### **Engineering Technology**

- Electricity Fundamentals
- Introduction to Object-Oriented Programming
- Introduction to Constraint Based Molding
- Information Technical Architecture

#### **Electrical Engineering Technology**

- Gateway to Elect. Engr. Tech.
- Technology and the Individual

#### **Industrial Technology**

- Industrial Organizations
- Industrial Supply Chain
- Management

#### **Organizational Leadership and Supervision**

- Human Behavior in Organizations
- Applied Leadership
- Leadership Principles
- Computer Aided Drafting & Design Academy
- Mechatronics Technology
- Electronics Career Academy
- Precision Production Technology
- Emergency Med Services Academy
- Fire Science or EMS-Paramedic.

**Students must be 18 by June for Fire Science and EMS programs.**

**PHARMACY TECHNICIAN TRAINING**  
**(IUSB Extended Learning**  
**Services--Certification**  
**Program-seniors only)**

**MICHIANA BEAUTY COLLEGE or VOGUE BEAUTY** - Cosmetology

**\*Refers to the Indiana Core Transfer Library (CTL)**

**A full explanation of the CTL is available at [www.transferIN.net/ctl](http://www.transferIN.net/ctl) or Google Core Transfer Library.**

### **Code of Conduct**

Students enrolled in courses that involve extra-curricular activities are subject to the terms of the Penn High School Code of Conduct. Students found in violation of the Code of Conduct will not suffer grade penalties. However, they may be subject to consequences detailed in the Code of Conduct.

### **Student Assistants**

A junior or senior in good standing may help a teacher during one block in place of their study hall. Students should apply through the Counseling Center prior to scheduling. No credit is awarded. This is a volunteer position. Good grades and a clean disciplinary record are required. Not everyone who requests a student assistantship will be selected.

### **Student Interns (Course number 1850)**

Juniors and seniors in good standing may work as a student intern in any of the offices at Penn. Application can be filled out in the Counseling Center. Interns receive credit and take their intern assignment as they would an elective class. Interns retain their study hall. Only students with unremarkable discipline and attendance will be considered. As part of this Work-Based Learning experience, students will complete a number of components resulting in a portfolio.

### **Kingsmen Tutor Internship (Course number 0661)**

Kingsmen Tutor Internship provides students with opportunities to tutor peers and assist a teacher during the school year in the classroom. Tutors will receive training and attend monthly meetings with the Kingsmen Tutor Leaders. The internship is considered volunteer experience earning approximately 70 volunteer hours per semester, if taken for no credit. Many college admission offices and scholarship committees are looking for this kind of long term service. We strongly advise you to take this class as an elective for credit, but it can also be taken in place of a study hall for no credit. The grade will be based on homework assignments, attendance and teacher evaluations. Kingsmen Tutors will be placed in classrooms for various subjects including but not limited to foreign language, Algebra I and II, Geometry, Biology, ICP, English and Chemistry. As part of this Work-Based Learning experience, students will complete a number of components resulting in a portfolio.

### **Peer Leaders (Course number 1603)**

Students (Grades 10-12) may earn 2 credits for work and interaction with students having moderate and severe disabilities. Students will provide 5 blocks over two weeks of in-class and/or community based instructions to disabled students under the personal supervision and direction of the course instructor or classroom teaching staff. As part of this Work-Based Learning experience, students will complete a number of components resulting in a portfolio. A complete description of this course may be found in the Multidisciplinary Courses.

## Foreign Exchange

Penn High School welcomes all foreign exchange students who live within the P-H-M school district. We believe that a foreign exchange program can do much to create a better understanding between young people of different countries. For enrollment of a foreign exchange student at Penn, it is necessary that the student is enrolled in a high school in his home country and is residing with a resident of the Penn-Harris-Madison school district. We also expect application in the spring prior to enrollment, with a deadline of May 1<sup>st</sup>. Foreign exchange students must enroll for the entire school year (August–June).

The staff at Penn High School stands ready to assist the foreign exchange student in any way possible to make the transition a comfortable one. Special effort will be made to enter the student into classes comparable with their ability and interest. It is expected that foreign exchange students are able to communicate in English. Students are encouraged to take electives in areas that may be new to them. Foreign exchange students receive a *Certificate of Attendance* at the end of the school year, not a Penn High School diploma. Foreign exchange students are always encouraged to take part in school activities-clubs, athletics, band and chorus, and other school wide events.

Several services not provided by the school to foreign exchange students include free lunches, books, class rings, yearbooks, caps and gowns and the cost of field trips. These are all provided by the host parent unless otherwise indicated. The school is not responsible for recruiting families from its area to provide homes for students.

## Freshman Mentors

Upperclassmen interested in serving as role models and guiding freshmen through their first year of high school can apply to be part of the Freshman Mentor program. Each mentor is assigned a group of 5-6 freshman students whom they will get to know personally during the Freshman Connections class. Mentors participate in training sessions each semester in preparation for leading freshmen through a number of activities designed to build community and ease the transition into high school life. The program's focus on building positive relationships and life skills benefits peer leaders and freshmen alike. Applications are available through the freshman counselors in the Counseling Office.

## Pharmacy Technician Training

This program is presented in cooperation with the Extended Learning Services Program at IUSB, Memorial Hospital and Elkhart General Hospital.

1 Semester 1-2 Credits Grade 12

Tuition: Tuition will be free for Penn Students

Textbooks/Fees: Students must purchase their own textbooks and materials—approximately \$200. Students must also complete an application and provide a \$25 application fee.

Prerequisite: Pass pharmacy technician math test.

Other: Students must provide their own transportation. Classes will take place at South Bend Memorial Hospital or Elkhart General Hospital.

Classes meet 6-8:30 PM on 10 Mondays and Thursdays

Student schedules are individualized. Students may enroll for one or two credits—depending upon the blocks available in the individual student schedule. Students are released from high school during the regular school day and will make-up the time during the evening Pharmacy Technician Classes.

### **Penn High School Course Numbers:**

	<u>First Semester</u>	<u>Second Semester</u>
One Period (afternoon)	690	691
Two Periods (afternoon)	672	673
One Period (morning)	696	697
Two Periods (morning)	696 & 686	697 & 687

Additional Information regarding the Pharmacy Technician Program may be obtained by emailing: [mball@phm.k12.in.us](mailto:mball@phm.k12.in.us). This program has been designed and taught by experienced, practicing pharmacists. By successfully completing this class and paying a certification fee, you can become state certified upon graduation from high school. Successful completion of this class will qualify you for an “entry-level” position. This is not a college credit program—this is a Pharmacy Technician Certification Program.

You are required to attend all classes. If, due to an emergency, you miss a class, it will be your responsibility to gather notes from other students to obtain the information you need. There will be no make-up quizzes for missed classes. A minimum grade of 65% on each exam will be required to pass the course. An overall grade of 70% is required to pass the course. IUSB requires 80% attendance to pass the course.

The contents of the training program include specific training duties required to assist a pharmacist in the technical functions associated with the practice of pharmacy, and shall include, at a minimum the following Understanding the duties and responsibilities of the technician and the pharmacist, including the standards of patient confidentiality and ethics governing pharmacy practice, Tasks and technical skills, policies, and procedures related to the technician’s position, Working knowledge of pharmaceutical-medical terminology, abbreviations, and symbols commonly used in prescriptions and drug orders, Working knowledge of the general storage, packaging, and labeling requirements of drugs, prescriptions, or drug orders, Ability to perform the arithmetic calculations required for the usual dosage determinations, Working knowledge and understanding of the essential functions related to drug purchasing and inventory control, The record keeping functions associated with prescriptions and drug orders

### **Pennway Alternative School**

Pennway Alternative day school offers a 9th-12th grade Core 40 diploma program in a smaller classroom setting across from Penn High School’s main campus. Participation is by counselor recommendation only.

### **Pennway Night School**

The Penn-Harris-Madison School Corporation offers the Pennway Night School which provides coursework toward a high school Core 40 diploma for students over the age of 18 and beyond their senior cohort living in or outside PHM boundaries. Night School provides a comprehensive core curriculum of AdvancED-approved courses delivered through the Plato software program. Individuals who have a GED, are currently enrolled at another high school and not beyond their graduation date are not eligible.

### **Independent Study**

Penn High School offers students the opportunity to take a variety of online courses through Independent Study. Students will engage in rigorous online course work delivered through Edmentum Plato, a computer software learning and curriculum program. Independent Study provides a comprehensive core curriculum of AdvancED- approved courses. Participation is by counselor recommendation and registration only.

## **EXCEPTIONAL EDUCATION**

Exceptional Education services are available to students who are eligible according to the Federal and State guidelines and who have current Individual Education Plans (I.E.P.s) specifying the type and amount of services to be provided. These services include, but are not limited to, the following:

### **Consultation Services**

The student is served in the general education classroom with consultation and support from the exceptional education teacher. Accommodations are made individually through case conference decisions.

### **Resource Services**

The student is served in the general education classroom but receives regular, direct support from the exceptional education teacher. Resource services can be provided for 20% of the school day or less.

### **Part-Time Exceptional Education Services**

The student is served by an exceptional education teacher for 21% to 60% of the school day. Classes are offered in an exceptional education setting and taught by an exceptional education teacher.

### **Full-Time Exceptional Education Services**

The student is served by an exceptional education teacher for more than 60% of the school day. Full-time programs are provided to students who have such significant exceptional education needs that they cannot benefit from instruction with only part-time support. Full-time services include three program options.

### **Applied Courses**

Students who elect applied courses are served by an exceptional education teacher in an exceptional education setting. These courses contain modified curriculum. These courses on their own do not meet the state proficiency requirements for a diploma. These students are working on a vocational tract towards earning a Certificate of Completion.

### **The Functional Life Skills Program**

This program is an activity/community based program designed to make students with significant disabilities as independent as possible within the school and community environments. Whenever appropriate, students receive their training in general education settings with non-disabled peers. Students do not earn course credit toward a diploma but will receive a Certificate for Completion of the Individual Education Plan and participate in graduation ceremonies.

**Indiana Certificate of Completion**  
**Course of Study**

Effective with the students who enter high school in 2018-19 school year (class of 2022)

The Course of Study for the Certificate of Completion is a framework for aligning curriculum to grade level standards while meeting the individual goals and transition needs stated in the student's Individual Education Plan (IEP).

Minimum total 40 credits/applied units: It is expected that these requirements are met through enrollment combination of general education courses for credit, modified general education courses in which non-credit applied units are earned and special education courses in which non-credit applied units are earned.

Life Skills*		Applied**
LS Language Arts I LS Language Arts II	<b>English/ Language (8 Units)</b>	Applied English 9 Applied English 10 Applied English 11 Applied English 12
Practical Math I Practical Math II	<b>Mathematics (4 Units)</b>	Applied Math I Applied Math II
LS Science	<b>Science (4 Units)</b>	Applied Biology
LS Social Studies	<b>Social Studies (4 Units)</b>	Applied Geography Applied Civics and Money Matters
Adaptive PE	<b>Physical Education (2 Units)</b>	PE or Adaptive PE
Daily Living Skills	<b>Health and Wellness (1 Units)</b>	Applied Health and Wellness

Community Living Education and Training Personal Management Employability Skills Work Experience	<b>Employability (10 Units)</b>	Careers Work Experience General education coursework driven by transition goals
General Education Elective	<b>Electives (7 Units)</b>	General Education Electives
<p><b>Students earning a certificate of completion fulfill <u>at least one</u> of the following (aligned with transition goals):</b></p> <ol style="list-style-type: none"> <li><b>1. Career Credential:</b> Complete an industry-recognized certification, one-year certificate or state-approved alternative</li> <li><b>2. Career Experience:</b> Complete project- or work-based learning experience or part time employment</li> <li><b>3. Work Ethic Certificate:</b> Earn a Work Ethic Certificate (criteria to be locally determined)</li> <li><b>4. Other Work Related Activities:</b> As determined by the case conference committee</li> </ol>		
<p>* Life Skills is intended for students who need more supported Exceptional Education level courses. ** Applied is intended for students who need more rigorous Exceptional Education courses.</p>		

## **EXCEPTIONAL EDUCATION COURSE DESCRIPTIONS**

**Penn# 1201**

**APPLIED ENGLISH 9**

**Semesters: 2 Credits: 2**

**Grade Level: 9**

**Prerequisite: Must be recommended  
in the Individual Education Plan**

**Weight: 4.0 IDOE: 1002A**

**Course Description:**

This course contains modified curriculum. This course is designed to give students the skills they need to fully understand the English language, as well as, the ability to read and

interpret a variety of literature selections. Students analyze readings for content and meaning. This class is designed for students who need an alternative to the general education English 9 class. Placement is made on the recommendation of the case conference committee. This course is for students working towards a Certificate of Completion.

**Penn# 1203**

**APPLIED ENGLISH 10**

**Semesters: 2 Credits: 2**

**Grade Level: 10**

**Prerequisite: Must be recommended  
in the Individual Education Plan**

**Weight: 4.0 IDOE: 1004A**

**Course Description:**

This course contains modified curriculum. This course is designed to give students the skills they need to fully understand the English language, as well as, the ability to read and interpret a variety of literature selections. Students analyze readings for content and meaning. This class is designed for students who need an alternative to the general education English 10 class. Placement is made on the recommendation of the case conference committee. This course is for students working towards a Certificate of Completion.

**Penn# 1205**

**APPLIED ENGLISH 11**

**Semesters: 2 Credits: 2**

**Grade Level: 11**

**Prerequisite: Must be recommended in the Individual Education Plan**

**Weight: 4.0 IDOE: 1006A**

**Course Description:**

This course is designed for those students in Exceptional education who need an alternative to the general education curriculum. Everyday English skills will be emphasized in the course. Placement in this course is made on the recommendation of the case conference committee. Students in this course are working towards a Certificate of Completion.

**Penn# 1207**

**APPLIED ENGLISH 12**

**Semesters: 2 Credits: 2**

**Grade Level: 12**

**Prerequisite: Must be recommended in the Individual Education Plan**

**Weight: 4.0 IDOE: 1008A**

**Course Description:**

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 grade-appropriate multimedia presentations and access online information.

**Penn# 1283/1285/1287**

**CORRECTIVE READING I, II & III**

**Semesters: 2 Credits: 2**

**Prerequisite: Must be recommended in the Individual Education Plan**

**Weight: 4.0 IDOE: 1120**

**Course Description:**

This is a supplemental course that provides students with individualized instruction designed to support success in completing coursework aligned with the Indiana Academic Standards for English/Language Arts focusing on the Reading Standards for Literature and Nonfiction.

Placement in the course is made on the recommendation of the case conference committee. This course is a remediation course as well as an elective course.

**Penn# 1265**

**LEARNING STRATEGIES**

**Semesters: 2 Credits: 2 Grade**

**Level: 9-12**

**Prerequisite: Must be recommended in the Individual Education Plan**

**Weight: 4.0 IDOE: 0500**

**Course Description:**

This course is highly recommended for 9th, 10th, 11th, and 12th grade students with exceptional education needs. Basic Skills Development is a multidisciplinary course based on the Indiana Content Connectors for basic skills development in grades 9th-12th. Must be recommended in the Individual Education Plan by the case conference committee. This is an elective course. It is designed to teach students a system of strategies to plan, execute and evaluate their performance on the academic expectations that they encounter at Penn High School. Students learn specific strategies to be independent learners. Teaching

methodology

emphasizes generalization of the strategies to the academic classes the students are taking.

**Penn# 1209**

**APPLIED GEOGRAPHY AND HISTORY OF THE WORLD**

**Semesters: 2 Credits: 2 Grade**

**Level: 9/10**

**Prerequisite: Must be recommended in the Individual Education Plan**

**Weight: 4.0 IDOE: 1570A**

**Course Description:**

This course contains modified curriculum. This course is designed for those students in exceptional education who need an alternative to the general education Geography and History of the World course.

This course will examine the human and physical geography of the seven continents of the world. Students will learn map skills and vocabulary related to world geography.

Placement is made on the recommendation of the case conference committee.

This course is geared towards individual skill needs. Students in this course are working towards a Certificate of Completion.

**Penn# 1213**

**APPLIED CIVICS**

**Semesters: 1 Credits: 1 Grade**

**Level: 12**

**Prerequisites: Must be recommended in the Individual Education Plan**

**Weight: 4.0 IDOE# 1508A**

**Course Description:**

This course contains modified curriculum. This course is designed to be paired with Money Matters. It is a course that outlines our government in a student friendly manner.

**Penn# 1216**

**APPLIED MONEY MATTERS**

**Semesters: 1 Credits: 1 Grade**

**Level: 11/12**

**Prerequisites: Must be recommended in the Individual Education Plan**

**Weight: 4.0 IDOE: 1514A**

**Course Description:** This course contains modified curriculum. This course is designed for those students in exceptional education who need an alternative to the general education Economics course. Students are acquainted with economic systems, supply and demand, consumer spending, and budgeting. Placement is made on the recommendation of the case conference committee. Students in this course are working towards a Certificate of Completion.

**Penn# 1233**

**PRACTICAL MATHEMATICS I**

**Semesters: 2 Credits: 2 Grade**

**Level: 9-10**

**Prerequisites: Must be recommended in the Individual Education Plan**

**Weight: 4.0 IDOE: 2560A**

**Course Description:**

This course contains modified curriculum. This course is designed for those students in exceptional education who need an alternative to the general education mathematics courses. It focuses on developing math skills for real life situations such as measurement, money skills, time, basic addition and subtraction, and more. A

variety of materials are used in individual and group instruction. This course is geared towards individual skill needs. Students in this course are working towards a Certificate of Completion. Students will be working on IAM standards.

**Penn# 1231**

**PRACTICAL MATHEMATICS II**

**Semesters: 2 Credits: 2 Grades:**

**11-12**

**Weight: 4.0 IDOE# 2560A**

**Course Description:**

This course contains modified curriculum. This course is designed for those students in exceptional education who need an alternative to the general education mathematics courses. This course prepares students for the real life mathematics skills they will need on the job, in the community and at home. A variety of materials are used in both group and individual instruction. Students in this course are working towards a Certificate of Completion.

**Penn# 1235**

**APPLIED MATH I**

**Semesters: 2 Credits: 2**

**Grades: 9-10**

**Prerequisite: Must be recommended in the Individualized Education Plan**

**Weight: 4.0 IDOE: 2560A**

**Course Description:**

Applied Mathematics provides students with individualized instruction designed to increase math related competencies and/or mathematics coursework aligned with Indiana's Content Connectors for Mathematics. Placement is made on the recommendation of the case conference committee. This course is for students working towards a Certificate of Completion.

**Penn# 1236**

**APPLIED MATH II**

**Semesters: 2 Credits: 2 Grades:**

**11-12**

**Prerequisite: Must be recommended in the Individualized Education Plan**

**Weight: 4.0 IDOE: 2560A**

**Course Description:**

Applied Mathematics provides students with individualized instruction designed to increase math related competencies and/or mathematics coursework aligned with Indiana's Content Connectors for Mathematics. Placement is made on the recommendation of the case conference committee. This course is for students working towards a Certificate of Completion.

**Penn# 1237**

**APPLIED BIOLOGY I**

**Semesters: 2 Credits: 2**

**Grades: 9-10**

**Prerequisites: Must be recommended in the Individual Education Plan**

**Weight: 4.0 IDOE: 3024A**

**Course Description:**

Applied Biology is a modified science course based on the following core topics: Std. 1 Cellular Structure and Function, Std. 2 Matter Cycles and Energy Transfer, Std. 3 Interdependence of Organisms, Std. 4 Inheritance & Variation in Traits, and Std. 5 Evolution. Multi-sensory learning and differentiated instruction should focus on developing student understanding that scientific knowledge is gained from observation of natural phenomena and experimentation, by designing and conducting investigations guided by theory, and by evaluating and communicating the results of those investigations according to accepted procedures. Students will address approaching standards for the Science and Engineering Process Standards (SEPS) as well as the Content

Connectors for the Indiana State Standards for Biology. Students may take Applied Biology 1B to continue content at a slower pace. Students will be assessed through Indiana's Alternate Measure (IAM) in 10th grade year to measure student achievement and growth according to Indiana's Content Connectors aligned to the Indiana Academic Standards.

**Penn# 1238**

**APPLIED BIOLOGY II**

**Semesters: 2 Credits: 2**

**Grades: 10**

**Prerequisites: Must be recommended in the Individual Education Plan**

**Weight: 4.0 IDOE: 3024A**

**Course Description:**

This course contains modified curriculum, which focuses on the ISTAR IDOE Biology standards. This course is designed for those students who need an alternative to the general education science courses. Students explore the nature of science, structures and functions of living systems and changes in living systems. Students will learn content through interactive relationships between living organisms and the environment. Students will learn content through a multi-sensory approach with differentiated instruction based on student needs. Students may be recommended to take a second year in this course of study. The Biology ISTAR assessment will be administered during the student's 10<sup>th</sup> grade year. Enrolled students are pursuing a Certificate of Completion.

**Penn# 1229 OR 1230**

**APPLIED HEALTH AND WELLNESS**

**Semesters: 1 Credits: 1**

**Grade Level: 9-12**

**Prerequisite: Must be recommended in the Individualized Education Plan**

**Weight: 4.0 IDOE: 3506A**

**Course Description:**

Health & Wellness, a course based on Indiana's Academic Standards for Health & Wellness, provides the basis to help students adopt and maintain healthy behaviors. Through a variety of instructional strategies, students practice the development of functional health information. Students will determine personal values that support health behaviors and develop the essential skills necessary to adopt, practice, and maintain health-enhancing behaviors. This course provides students with the knowledge and skills of health and wellness core concepts, analyzing influences, accessing information, interpersonal communication, decision-making and goal-setting skills, health-enhancing behaviors, and health and wellness advocacy skills.

**Penn# (0503/0504) 3002**

**APPLIED PHYSICAL EDUCATION I & II**

**Semesters: 2 Credits: 2**

**Grade Level: 9**

**Prerequisite: Case conference committee and medical statement on file**

**Weight: 4.0**

**IDOE: 3542A & 3544A**

**Course Description:**

**Alternative for requirement.** This course offers students with special mental, physical, sensory, or neurological problems lifetime fitness and health related activity. The program will include within the least restrictive environment, a variety of developmental activities, games, sports, and rhythms appropriate to the interests, capabilities, and limitations of the student. Opportunities will be given for students to achieve fitness concepts, fitness for enjoyment and social interaction, as

well as different forms of movement and an aquatics unit.

**Penn# 1266**

**CAREER INFORMATION**

**Semesters: 2 Credits: 2 Grade Level: 9-10**

**Prerequisites: Must be recommended in the Individual Education Plan**

**Weight: 4.0 IDOE: 0522A**

**Course Description:**

This course is designed to introduce students to many career fields and options, and to teach students to match their interests, abilities and lifestyle choices to compatible careers. Employability/workforce readiness skills (communication, organization, teamwork, punctuality, critical thinking/problem solving, social cues, adaptability and work ethic) are taught in order to enhance successful employment. Students create a personal resume, participate in classroom vocational activities, complete job interest surveys and develop interview skills. This class is a prerequisite for the Work Experience Program. Placement is made on the recommendation of the case conference committee. This course is for students working towards a Certificate of Completion.

**Penn# 1239 1240 1241 1242 1243**

**1244 1245 1246**

**WORK EXPERIENCE (WBL)**

**Semesters: 2 Variable Credit**

**Grade Level: 11-12**

**Prerequisites: Must be recommended in the Individual Education Plan.**

**Weight: 4.0**

**IDOE: 5974A or 5974**

**Course Description:**

These courses are designed to give students in exceptional education an opportunity to gain work experience

through in school or community jobs. This program provides the first opportunity for students to experience real world requirements for success in the workplace. Job coaching and frequent evaluations are used to teach students employability/workforce readiness skills (communication, organization, teamwork, punctuality, critical thinking/problem solving, social cues, adaptability and work ethic). Placement is made on the recommendation of the case conference committee.

### **LS CLASSES**

**These classes contain a modified curriculum. They are designed to make students with significant disabilities as independent as possible within school and community environments. All courses in this section are for students completing a Certificate of Completion. Students receive a high level of support.**

#### **Penn# 2202**

#### **LIFE SKILLS (DAILY LIVING SKILLS)**

**Semesters: 2**

**Grade Level: 9-12**

**Prerequisites: Must be recommended in the Individual Education Plan.**

**Weight: 4.0 IDOE: 0500A**

#### **Course Description:**

This multidisciplinary course provides students the opportunity to continue to develop basic skills including writing, math, organizational, and interpersonal skills. Students will work on home living skills such as cooking, cleaning, and laundry, as well as a variety of employability skills. Students will also learn about personal care, health, and safety. Skills will be emphasized for each student based on their Individualized Education Program (IEP)

in line with content connectors. Community based instruction may also be used to practice daily living skills. This course is for students working towards a Certificate of Completion.

#### **Penn# 2200**

#### **LS BIOLOGY**

**Semesters: 2 Credits: 2**

**Grades: 9-12**

**Prerequisites: Must be recommended in the Individual Education Plan**

**Weight: 4.0 IDOE: 3024A**

#### **Course Description:**

Lifeskills Biology is a modified science course based on the following core topics: Std. 1 Cellular Structure and Function, Std. 2 Matter Cycles and Energy Transfer, Std. 3 Interdependence of Organisms, Std. 4 Inheritance & Variation in Traits, and Std. 5 Evolution. Multi-sensory learning and differentiated instruction should focus on developing student understanding that scientific knowledge is gained from observation of natural phenomena and experimentation, by designing and conducting investigations guided by theory, and by evaluating and communicating the results of those investigations according to accepted procedures. Students will address approaching standards for the Science and Engineering Process Standards (SEPS) as well as the Content Connectors for the Indiana State Standards for Biology. Practical application will be a primary focus to promote independent living skills and personal safety in the community. Students will be assessed through Indiana's Alternate Measure (IAM) in 10th grade year to measure student achievement and growth according to Indiana's Content Connectors aligned to the Indiana Academic Standards.

Connectors aligned to the Indiana Academic Standards.

#### **Penn# 2224**

#### **LS BIOLOGY II**

**Semesters: 2 Credits: 2**

**Grades: 10-12**

**Prerequisites: Must be recommended in the Individual Education Plan**

**Weight: 4.0 IDOE: 3024A**

#### **Course Description:**

Lifeskills Biology is a modified science course based on the following core topics: Std. 1 Cellular Structure and Function, Std. 2 Matter Cycles and Energy Transfer, Std. 3 Interdependence of Organisms, Std. 4 Inheritance & Variation in Traits, and Std. 5 Evolution. Multi-sensory learning and differentiated instruction should focus on developing student understanding that scientific knowledge is gained from observation of natural phenomena and experimentation, by designing and conducting investigations guided by theory, and by evaluating and communicating the results of those investigations according to accepted procedures. Students will address approaching standards for the Science and Engineering Process Standards (SEPS) as well as the Content Connectors for the Indiana State Standards for Biology. Practical application will be a primary focus to promote independent living skills and personal safety in the community. Students will be assessed through Indiana's Alternate Measure (IAM) in 10th grade year to measure student achievement and growth according to Indiana's Content Connectors aligned to the Indiana Academic Standards.

#### **Penn# 2208**

#### **LS SOCIAL STUDIES**

**Semesters: 2 Credits: 2 Grade**

**Level: 9-12**

<p><b>Prerequisites: Must be recommended in the Individual Education Plan</b></p>	<p><b>Semesters: 2 Credits: 2 Grade Level: 11</b></p>	<p>classes not on diploma track. This program provides the first opportunity for students to experience real world requirements for success in the workplace. Job coaching and frequent evaluations are used to teach students employability/workforce readiness skills (communication, organization, teamwork, punctuality, critical thinking/problem solving, social cues, adaptability and work ethic). This course is for students working towards a Certificate of Completion and/or Diploma Track. Placement is made on the recommendation of the case conference committee.</p>
<p><b>Penn# 2204</b> <b>LS LANGUAGE ARTS 9</b> <b>Semesters: 2 Credits: 2 Grades: 9</b></p>	<p><b>Prerequisites: Must be recommended in the Individual Education Plan</b></p>	<p><b>Penn# 2222</b></p>
<p><b>Weight: 4.0 IDOE: 1508A</b></p>	<p><b>Course Description:</b> Students develop skills on their personal environment, community and world around them. Instruction is centered on the development of individual student and their use of the resources available.</p>	<p><b>LS EMPLOYABILITY</b></p>
<p><b>Semesters: 2 Credits: 2 Grades: 9</b></p>	<p><b>Prerequisites: Must be recommended in the Individual Education Plan</b></p>	<p><b>Semesters: 2 Credits: 2 Grade Level: 11-12</b></p>
<p><b>Weight: 4.0 IDOE: 1002A</b></p>	<p><b>Course Description:</b> Students develop reading and writing skills. Students are taught at their academic level and supported with a high amount of support. The class is focused on everyday Language Arts skills.</p>	<p><b>Prerequisite: Must be recommended in the Individualized Education Plan</b></p>
<p><b>Course Description:</b> Students develop reading and writing skills. Students are taught at their academic level and supported with a high amount of support. The class is focused on everyday Language Arts skills.</p>	<p><b>Weight: 4.0 IDOE: 1008A</b></p>	<p><b>Weight: 4.0 IDOE: 0522A</b></p>
<p><b>Semesters: 2 Credits: 2 Grades: 10</b></p>	<p><b>Course Description:</b> Students receive focused instruction on reading through the use of current events. Specific curriculum is used to accommodate the individual student at their reading level. Creative and timely materials are used to engage all learners.</p>	<p><b>Course Description:</b></p>
<p><b>Penn# 2226</b> <b>LS LANGUAGE ARTS 10</b> <b>Semesters: 2 Credits: 2 Grades: 10</b></p>	<p><b>Prerequisites: Must be recommended in the Individual Education Plan</b></p>	<p>The LS Employability course provides students with opportunities to learn about themselves including interests, strengths and needed supports while exploring various traditional and nontraditional occupations and careers. Students develop skills in employability, and career decision making and planning. Opportunities are provided for students to observe and participate in various job situations through opportunities such as community based instruction, internships, mock interviews, and guest speakers. Life Skill portfolio and resume development experience and career-related assessments may also be provided to students.</p>
<p><b>Weight: 4.0 IDOE: 1004A</b></p>	<p><b>Course Description:</b> Students develop reading and writing skills. Students are taught at their academic level and supported with a high amount of support. The class is focused on everyday Language Arts skills.</p>	<p><b>Penn# 2220</b></p>
<p><b>Course Description:</b> Students receive focused instruction on reading through the use of current events. Specific curriculum is used to accommodate the individual student at their reading level. Creative and timely materials are used to engage all learners.</p>	<p><b>Weight: 4.0 IDOE: 1004A</b></p>	<p><b>Course Description:</b></p>
<p><b>Semesters: 2 Credits: 2 Grades: 11-12</b></p>	<p><b>Prerequisite: Must be recommended in the Individualized Education Plan</b></p>	<p><b>Weight: 4.0 IDOE: 5974A</b></p>
<p><b>Penn# 2212</b> <b>LS LANGUAGE ARTS 11</b></p>	<p><b>Course Description:</b> These courses are designed to give students in exceptional education an opportunity to gain work experience through in school or community jobs. Content connectors as standards for</p>	<p><b>Course Description:</b></p>
<p><b>Weight: 4.0 IDOE: 5974A</b></p>	<p><b>Prerequisite: Must be recommended in the Individualized Education Plan</b></p>	<p><b>Weight: 4.0 IDOE: 5974A</b></p>
<p><b>Semesters: 2 Credits: 2 Grades: 11-12</b></p>	<p><b>Course Description:</b> These courses are designed to give students in exceptional education an opportunity to gain work experience through in school or community jobs. Content connectors as standards for</p>	<p><b>Penn# 2210</b></p>
<p><b>Course Description:</b> These courses are designed to give students in exceptional education an opportunity to gain work experience through in school or community jobs. Content connectors as standards for</p>	<p><b>Prerequisite: Must be recommended in the Individualized Education Plan</b></p>	<p><b>LS EDUCATION AND TRAINING</b></p>
<p><b>Semesters: 2 Credits: 2 Grades: 11-12</b></p>	<p><b>Course Description:</b> These courses are designed to give students in exceptional education an opportunity to gain work experience through in school or community jobs. Content connectors as standards for</p>	<p><b>Semesters: 2 Credits: 2 Grade Level: 11-12</b></p>

**Prerequisite: Must be recommended in the Individualized Education Plan**

**Weight: 4.0 IDOE: 0500A**

**Course Description:**

LS Education and Training 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) study and organizational skills, and (7) problem-solving skills, (8) employability skills, which are essential for high school achievement and postsecondary outcomes. Determination of the skills to be emphasized in this course is based on Indiana's standards and Content Connectors and the student's Individualized Education Programs (IEP). Skills selected for developmental work provide students with the ability to continue to learn in a range of different life situations and may be applied using instructional practices related to community based instruction. Placement is made on the recommendation of the case conference committee. This course is for students working towards a Certificate of Completion.

**Penn# 2214**

**LS COMMUNITY LIVING**

**Semesters: 2 Credits: 2 Grade**

**Level: 9-12**

**Prerequisite: Must be recommended in the Individualized Education Plan**

**Weight: 4.0 IDOE: 5330A**

**Course Description:**

LS Community Living is recommended for all students as life foundations for independent community living. This course builds knowledge, skills, attitudes, and behaviors that students will need as they complete high school and prepare to take the next steps toward adulthood in today's society. The

course includes the study of interpersonal standards, lifespan roles and responsibilities, individual and family resource management, and financial responsibility and resources. Placement is made on the recommendation of the case conference committee. This course is for students working towards a Certificate of Completion.

**Penn# 2206**

**LS PERSONAL MANAGEMENT**

**Semesters: 2 Credits: 2 Grade**

**Level: 9-12**

**Prerequisite: Must be recommended in the Individualized Education Plan**

**Weight: 4.0 IDOE: 5364A**

**Course Description:**

LS Personal Management is a course which focuses on essential life skills. This course addresses knowledge and skills needed for positive and productive relationships in career, community, and family settings. Major course topics include communication skills; leadership, self-determination, teamwork, and collaboration; conflict prevention, resolution, and management; building and maintaining relationships; and individual needs and characteristics and their impacts on relationships.

**Penn# 2100 AND/OR 2101**

**SOCIAL SKILLS AND**

**SELF-MANAGEMENT PROGRAM**

**INDEPENDENT Study/Study Hall**

**Semesters: 1 or 2**

**Credits: variable**

**Grade Level: 9-12**

**Course Description:**

Students in the Exceptional Education program will gain credits through on-line learning. Students will be working on the credits needed as discussed in a case conference. Students will receive a high level of support. Placement is

## MULTIDISCIPLINARY COURSES

**Penn# 1871**  
**PREPARING FOR COLLEGE & CAREERS (PCC)**  
**Semesters: 1 Credits: 1**  
**Grade Level: 9**  
**Weight: 4.0 IDOE: 5394**

**Course Description:**

The focus of this course is on the impact of today's choices on tomorrow's possibilities. Topics will include exploration of personal aptitudes, interests, principles and goals; life and career exploration; college and/or military planning; employability skills; personal financial literacy; transferring school skills to life and work and good decision making. This course will provide a strong foundation for becoming an involved, independent, and responsible student, employee and citizen. Students will create and apply critical thinking strategies in areas of time management, media literacy, learning styles, study skills, career planning, money management, resource utilization.

**Penn# 1881/1882**  
**INTRODUCTION TO COMMUNICATION**  
**Semesters: 1 Credits: 1**  
**Grade Level: 9-10**  
**Weight: 4.0 IDOE: 4790**

**Course Description:**

This is the first course in a sequence of courses designed to prepare students for college and careers with a focus on communications. The major goals of this course include an overview of communication technology; the way it has evolved, how messages are designed and produced, and how people may profit from creating information services and products. Students will explore mass media communication processes including radio and television broadcasting, publishing and printing activities, telecommunication networks, recording services, computer and data processing networks, and other related systems. Students will use the design process to solve design projects in each communication area.

**Penn# 1877/1879**  
**INTERACTIVE MEDIA**  
**Semesters: 2 Credits: 2**  
**Grade Level: 10-11**  
**Prerequisite: Digital Applications and Responsibility**

**Weight: 4.00 IDOE: 5232**

**Course Description:**

Interactive Media prepares students for careers in business and various industries working with interactive media products and services. This course emphasizes the development of digitally generated or computer-enhanced products using multimedia technologies including their Chromebooks, cell phones, digital cameras, tripods, and more. They will be learning about various art and design elements, digital photography techniques, 2D and 3D animation, video production and editing

**Penn# 1886 OR 1887**   
**CONSUMER ECONOMICS**  
**Semesters: 1 Credits: 1**  
**Grade Level: 9-12**  
**Weight: 4.0 IDOE: 5334**  
**Counts as a social studies requirement for general diploma only**

**Course Description:**

This course focuses on interrelationships among economic principles and individual and family roles of exchanger, consumer, producer, saver, investor, and citizen. Economic principles to be studied include scarcity, supply and demand, market structure, the role of government, money and the role of financial institutions, labor productivity, economic stabilization, and trade.

**Penn# 0680, 0681, 0682, 0683, 0684, 0685, 0686, 0687- 1 block**  
**0674, 0675, 0679- 2 blocks**

**WORK BASED LEARNING**

**INTERNSHIP (WBL)**

**Semesters: 1 or 2**

**One Block: 1 credit per semester**

**Two Blocks: 2 credits per semester**

**Grade Level: 11-12**

**Prerequisite: One CTE Course**

**Weight: 4.0 IDOE: 5974**

**Course Description:**

Students must provide their own transportation. Professional Career Internship is a career course that is

designed to provide opportunities for students to begin college coursework patterned off the SAT® rhetorical students to explore careers that require while still in high school. An analysis and ACT argumentative additional degrees, certifications or individualized schedule and plan will be synthesis. The course also includes training beyond high school. The developed for each participant. Juniors practice of SAT®/ACT math and science emphasis of the experience is on and seniors choose an area that skills, as well as test-taking strategies to applying skills developed through matches their intended college major, improve performance on these instruction from an adult mentor and their career plan or personal interest area. Participating colleges are Bethel practice of SAT®/ACT math and science learning new career competencies at College, IUSB, Ivy Tech, Purdue skills, as well as test-taking strategies to the internship site. Activities can be Polytechnical, Southwestern Michigan improve performance on these tailored to the unique needs and College (Niles/Dowagiac), Michiana courses. interests of the students. Internships Beauty College and Vogue. Each College, IUSB, Ivy Tech, Purdue experiences. Students should enroll in School and a local college. Each the particular post-secondary institution the Internship class because the student will receive college credit from and high school credit from the Penn program provides an opportunity for a Advanced CTE CC Program. Students will pay the textbook cost for that student to experience all aspects of "real world" requirements for success and the particular college (same as if the student had graduated from high school and was attending the college). See the program is a means of linking academic section for details. **Students must learning with career and community provide their own transportation.** experiences. As part of this **Complete details are listed in the Work-Based Learning experience, Penn Advanced CTE College Credit students will complete a number of Program section.** components resulting in a portfolio.

**Penn# 0690 AND/OR 0691  
PENN ADVANCED CTE COLLEGE  
CREDIT**

**(A College-Based Dual Credit**

**Program)**

**Semesters: 1 or 2 Credit: 1-8**

**Grade Level: 11-12**

**Prerequisite: Meet Individual College  
admission requirements**

**Weight: 4.0**

**Course Description:**

**Students may enroll in Advanced CTE College Credit for 1, 2, 3 or 4 periods. Student schedules are individualized according to the student's interests. Student is responsible for all costs associated with the college course.** Students have the opportunity to enroll in a class at a local college through the Penn Advanced CTE CC Program at Penn High School. This is an opportunity for

**Penn# 1885**

**SAT®/ACT**

**Semesters: 2 Credits: 0 Grade**

**Level: 10-12**

**Weight: 4.0 IDOE: 0532**

**Course Description:**

The SAT®/ACT course helps students to develop the reading, language, writing, math, and science skills that are foundational for success in college and the professions. The class provides opportunities to practice close reading of informational, narrative, persuasive, and literary texts, and includes review of the writing conventions and organizational elements that students need to apply in their composing and proofreading. Students will complete timed essays

**Penn# 1603**

**PEER LEADERS (WBL)**

**Semesters: 2 Credits: 2 Grade**

**Level: 10-12**

**Prerequisite: Interview with course  
instructor**

**Weight: 4.0 IDOE: 5974**

**Course Description:**

This course is designed to give high school students the opportunity to interact with and learn about people with disabilities. Students will provide 5 blocks over two weeks of in-class and/or community based instruction to students with moderate and severe disabilities under the personal supervision and direction of the course instructor or classroom teaching staff.

**Penn# 1611**

**PEER LEADERS- YAP (WBL)**

**Semesters: 2 Credits: 2 Grade**

**Level: 11-12**

**Prerequisite: Peer Leaders- 1603**

**Weight: 4.0 IDOE: 5974**

**Course Description:**

This course is designed to give high school students the opportunity to interact with people with disabilities and learn how to work with them. Students will provide 5 blocks over two weeks of in-class and/or community based instruction to students with moderate and severe disabilities in the Young Adult Program under the personal supervision and instruction of the YAP director.

<b>Penn# 1655</b>	stories about contemporary topics and problems on a PNN <u>mass-media channel</u> .	<b>Course Description:</b> In AP® Seminar, students investigate real-world issues from multiple perspectives, gathering and analyzing information from various sources in order to develop credible and valid evidence-based arguments. Students who earn scores of 3 or higher in AP® Seminar and AP® Research and on four additional AP® Exams of their choosing will receive the AP® Capstone Diploma. Students who earn scores of 3 or higher in AP® Seminar and AP® Research but not on four additional AP® Exams will receive the AP® Seminar and Research Certificate. AP® Seminar may also be taken as a stand-alone option.
<b>BASIC SKILLS DEVELOPMENT: ENL STRATEGIES</b>	<b>Penn# 0661 BBBS: 0662</b>	
<b>Semesters: 2 Credits: 2 Grade</b>	<b>KINGSMEN TUTOR INTERNSHIP (WBL)</b>	
<b>Level: 9-12</b>	<b>Semesters: 2 Credits: 2 Grade</b>	
<b>Recommendation: WIDA Scores</b>	<b>Level: 11-10</b>	
<b>Weight: 4.0 IDOE: 0500</b>	<b>Prerequisite: Application, interview, teacher recommendations, clean disciplinary and attendance record</b>	
<b>Course Description:</b>	<b>Weight: 4.0 IDOE: 5974</b>	
Basic Skills Development is a multidisciplinary course which provides students continuing opportunities to develop the 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 that are essential for high school course work achievement. Determination of the skills to be emphasized in this course is based on the Indiana State proficiencies, individual school corporation general curriculum plans, and student Individualized Learning Plan (ILP). Credits earned in this course are elective credits. For further information regarding ENL services, please contact your Guidance Counselor or ENL Coordinator.	Kingsmen Tutor Internship provides students with opportunities to tutor peers and assist a teacher during the school year in the classroom. Tutors will receive training and attend monthly meetings with the Kingsmen Tutor Leaders. If you take second semester for no credit then this internship is considered volunteer experience, earning approximately 70 volunteer hours in the semester. Many college admission offices and scholarship committees are looking for this kind of long term service. We strongly advise you to take this class as an elective, but it can also be taken in place of a study hall. The grade will be based on homework assignments, attendance and teacher evaluations. Kingsmen Tutors will be placed in classrooms for various subjects including but not limited to foreign language, Algebra I and II, Geometry, Biology, ICP, English and Chemistry.	In AP® Capstone Research, students cultivate the skills and discipline necessary to conduct independent research in order to produce and defend a scholarly academic thesis. Students who earn scores of 3 or higher in AP® Seminar and AP® Research and on four additional AP® Exams of their choosing will receive the AP® Capstone Diploma. Students who earn scores of 3 or higher in AP® Seminar and AP® Research but not on four additional AP® Exams will receive the AP® Seminar and Research Certificate. AP® Seminar may also be taken as a stand-alone option.
<b>Penn# 1658</b>	<b>Penn# 1605 &amp; 1607</b>	
<b>ENL - INTERNATIONAL SEMINAR</b>	<b>AP® CAPSTONE: AP® SEMINAR &amp; AP® RESEARCH</b>	
<b>Semesters: 2 Credits: 2 Grade</b>	<b>(A 2 year course)</b>	
<b>Level: 9-12</b>	<b>Semesters: 2 Credits: 4 Grade</b>	
<b>Weight: 4.0 IDOE: 1012</b>	<b>Level: 11-12</b>	
<b>Recommendation: WIDA Scores</b>	<b>Weight: 5.0 IDOE: 0552 &amp; 0551</b>	
<b>Course Description:</b>  Students enrolled in the International Seminar class focus on the active application of language in order to address global issues & problems. Students stay abreast of current world events through weekly readings. They recount, explain, argue and discuss current issues in a seminar format. As a team, these students use mass-media to craft, publish, and distribute new	<b>Course Description:</b> <b>AP® CAPSTONE: AP® SEMINAR &amp; AP® RESEARCH</b> <b>(A 2 year course)</b> <b>Semesters: 2 Credits: 4 Grade</b> <b>Level: 11-12</b> <b>Weight: 5.0 IDOE: 0552 &amp; 0551</b>	<b>Penn# 1869</b> <b>COMMUNICATION &amp; PUBLIC RELATIONS INTERNSHIP (WBL)</b> <b>Semesters: 2 Credits: 2 Grade</b> <b>Level: 10-12</b> <b>Weight: 4.0 IDOE: 5974</b> <b>Course Description:</b>

This internship – which is focused on promoting the events and people of Penn High School and the Penn-Harris-Madison School Corporation – is designed for students who wish to apply the practices of public relations (written and visual) in order to gain experience and build a portfolio. Students should already have a strong understanding of writing, journalistic and public relations principles, or students need to have strong graphic design/videography skills and a command of Adobe Photoshop, Adobe Illustrator, InDesign, and/or videography skills, including Adobe Premiere Pro. Students will implement media relations strategies such as crafting press releases, writing news/features articles, or producing graphic designs or videos to promoting Penn/P-H-M events/people through social/traditional media.

## PENN HIGH SCHOOL

### PENN ACADEMY EARLY COLLEGE (PAEC) COURSE INFORMATION

#### **9TH GRADE COURSE INFORMATION**

**Penn# 2301**



**ENGLISH 9 (PAEC)**

**Semesters: 2 Credits: 2**

**Grade Level: 9**

**Weight: 4.0 DOE# 1002**

**Course Description:**

English 9 PAEC focuses on increasing student understanding of our common humanity through literature. This is accomplished through a synthesis of literature, composition, research, grammar, usage, mechanics, public speaking and vocabulary; formative and summative assessments will follow in all of the above areas. Along with students becoming stronger writers, speakers, listeners and readers, they will also be better equipped for even more rigorous future English classes for college credit. Unique to PAEC English 9, students will have the opportunity to use project-based, authentic learning across the curriculum..

**Penn# 2303**



**INTEGRATED CHEMISTRY AND  
PHYSICS (PAEC)**

**Semesters: 2 Credits: 2**

**Grade Level: 9**

**Weight: 4.0 DOE# 3108**

**Course Description:**

The course is required for students entering the Early College Program and prepares students for taking dual credit science classes through Ivy Tech Community College. This interdisciplinary science class investigates themes of chemistry and physics through a real world, project/lab-based approach which emphasizes scientific inquiry and process skills. The course will primarily focus on the following themes: Motion, Energy, Properties of Matter, Chemical Reactions, and Science in Society.

**Penn# 2306**



**ALGEBRA I (PAEC)**

**Semesters: 2 Credits: 2**

**Grade Level: 9**

**Weight: 4.0 DOE# 2520**

**Course Description:**

The Mathematics standards for Algebra I are made up of 5 strands: Real Numbers and Expressions; Functions; linear equations, Inequalities, and Functions; Systems of Equations and Inequalities; Quadratic and Exponential Equations and Functions; and Data Analysis and Statistics. Algebra I is a required course for graduation.

**Penn# 2305**



**GEOMETRY (PAEC)**

**Semesters: 2 Credits: 2**

**Grade Level: 9**

**Prerequisites: Algebra I**

**Weight: 4.0 DOE# 2532**

**Course Description:**

This course is for students enrolled in the Early College Program. The curriculum will be the standards for Geometry and an in-depth review of Algebra topics preparing the students for Algebra II Honors their sophomore year. Geometry is designed to study the pattern and structure of geometry using the techniques of inductive and deductive reasoning. The properties and relationships of geometric figures will include the study of angles, lines, planes, congruent and similar triangles, trigonometric ratios, polygons, and circles. An understanding of proof and logic will be developed and formal proof will be emphasized. **A scientific calculator is required.**

**Penn# 2309**

**SPANISH 1 (PAEC)**

**Semesters: 2 Credits: 2**

**Grade Level: 9**

**Weight: 4.0 DOE# 2120**

**Course Description:**

Spanish 1 EC is designed to prepare highly capable, motivated students to achieve dual credit through Ivy Tech in their junior or seniors. This course introduces students to the Spanish language by practicing the basic language acquisition skills of reading, writing, listening, and speaking on a daily basis. The goal of Spanish 1 EC is to establish a solid foundation in the Spanish language as well as to apply various strategies for learning a language. Within this context, Spanish 1 EC provides students with opportunities to:

- Comprehend new language through dialogues, clip art, rhymes, visuals, and video

- Practice communication through listening exercises, paired activities, and group activities
- Answer questions and express personal opinions both verbally and in writing
- Compare languages and cultures through grammar study, pronunciation, art, and readings in authentic settings
- Demonstrate all language skills through a variety of tasks and projects presented in the classroom

**Penn# 2311** 

**IVYT 111 STUDY SKILLS (PAEC)**

**Semesters: 2 Credits: 2**

**Grade Level: 9**

**Weight: 4.5 DOE# 0500**

**DOE: Basic Skills Development**

**College Credits: 3**

**Course Description:**

Enhances success in college by assisting students in obtaining skills necessary to educational, career and life objectives. Students will create and apply critical thinking strategies in areas of time management, media literacy, learning styles, study skills, career planning, money management, resource utilization.

**Penn# 2307** 

**GEOGRAPHY AND HISTORY OF THE WORLD, (PAEC)**

**Semesters: 2 Credits: 2**

**Grade Level: 9**

**Weight: 4.0 DOE# 1570**

**Course Description:**

Honors Geography focuses on integrating the spatial and ecological geographic perspectives. Using critical thinking, and analysis the course aims to allow students to study the

interdependence of the Earth's physical and human systems, putting humans and the earth in context. The course supplements these perspectives with historic, economic, civic and cultural perspectives to frame a distinctly geographic way of looking at the world.

## 10th GRADE COURSE INFORMATION

**Penn# 2315** 

**ENGL 095 INTEGRATED READING & WRITING (PAEC)**

**Semesters: 2 Credits: 2**

**Grade Level: 10**

**Prerequisites: English 9**

**Weight: 4.5 DOE# 1004**

**DOE- English 10**

**College Credits: 3**

**Course Description:**

English 10 PAEC is designed to prepare students for success in future dual credit classes, building on the literary and study skills they developed in English 9 PAEC. This course also pushes students to be prepared for the Accuplacer and PSAT tests, of which a certain level of competency is required for college credit classes. In addition to the curriculum developed by Penn teachers, Ivy Tech's Integrated Reading and Writing Course will also be used to help make the above goals achievable. Students analyze and respond through reading, writing, speaking, and listening to a variety of fiction and non-fiction pieces of literature, as well as informational texts, giving students the necessary skills to be successful, college-level readers and writers.

**Penn# 2319** 

**BIOLOGY I (PAEC)**

**Semesters: 2 Credits: 2**

**Grade Level: 10**

**Prerequisites: ICP**

**Weight: 4.0 DOE# 3024**

**Course Description:**

The course highlights how biology applies to and potentially improves human life. To help students develop into productive and responsible citizens, they will make connections between biological concepts and real life applications. Through regular use of Science and Engineering Practices, inquiry laboratory investigations, data analysis, demonstrations, reading, research, group discussion, and computer simulations, Early College Biology Honors provides a study of four major themes: Biochemistry and Cells - Organic molecules, cellular components and functions. Ecology - study of the relationships between living organisms and the environment. Genetics - study of the molecular basis of heredity and inheritance of traits. Evolution - mechanism for change over time and the unity and diversity of life. In the spring, students will take Indiana Statewide Testing for ILEARN in Biology.

**Penn# 2317 OR 2318** 

**TOPICS OF HISTORY (PAEC)**

**Semesters: 1 Credits: 1**

**Grade Level: 10**

**Weight: 4.0 DOE# 1538**

**Course Description:**

US History Detectives is designed to introduce Early College students to the History of the United States with an investigative approach. In this course students will ask probing questions surrounding iconic mysteries from America's past. This course has students to step into the shoes of a history detective and tackle some of history's toughest mysteries. Students will evaluate conflicting evidence by examining sources, evaluating the

context of those source, including identifying the differences between then and now. Additionally, students are expected to examine multiple sources to see what other sources say about the information found in primary source documents. This course requires close reading of primary sources to establish what the source says, its bias, tone, etc. The intent of this course is to equip students with research tools that they can use throughout their academic and lifetime careers.

**Penn# 2323**



**SPANISH 2 (PAEC)**

**Semesters: 2 Credits: 2**

**Grade Level: 10**

**Prerequisites: Spanish I**

**Weight: 4.0 DOE# 2122**

**Course Description:**

Spanish 2 EC is the continuation of preparing the students to achieve dual credit through Ivy Tech in their junior and senior years. This course continues to focus on the important skills of reading, writing, listening, and speaking while studying new tenses. Special emphasis will be placed on open-ended writing as well as oral proficiency that includes studying and applying pronunciation rules. Within this context, Spanish 2 EC provides students with opportunities to:

- Comprehend new language through dialogues, clip art, rhymes, visuals, video, and games
- Practice communication through listening exercises, paired activities, and group activities
- Answer questions and express personal opinions both verbally and in writing

- Compare languages and cultures through grammar study, pronunciation, art, and readings in authentic settings
- Demonstrate all language skills through a variety of tasks and projects presented in the classroom

**Penn# 2326 OR 2327**

**CINS 101 INTRODUCTION TO MICROCOMPUTERS (PAEC)**

**Semesters: 1 Credits: 1**

**Grade Level: 10**

**Prerequisites:** Passing score on the English Accuplacer Tests OR "C" or higher in ENG 095

**Weight: 4.5 DOE# 4528**

**DOE- Digital Applications & Responsibility**

**College Credits: 3**

**Course Description:**

Introduces the physical component and operations of microcomputers. Focuses on computer literacy and provides hands-on training in four areas of microcomputer applications software: word processing, electronic spreadsheets, database management and presentation software. Use of a professional business computer application program is encouraged.

**Penn# 2321**



**ALGEBRA II (PAEC)**

**Semesters: 2 Credits: 2**

**Grade Level: 10**

**Prerequisites: Geometry**

**Weight: 4.0 DOE# 2522**

**Course Description:**

This course is for students with above average performance in math. It expands on the topics of Algebra I and provides further development of the concepts of a function, domain and range. Reviews linear equations, inequalities, graphing, and factoring

algebraic expressions. Concentrates on properties of integer and rational exponents, systems of linear equations, radicals, radical equations, quadratic equations, functions including their graphs, and applications. Compared to Algebra II, the pace of this course is accelerated and topics are covered in greater depth. Students will gain experience using the graphing calculator. **A scientific calculator is required and a graphing calculator is highly recommended.**

## 11th GRADE COURSE INFORMATION

**Penn# 2345**

**EARLY COLLEGE STUDY TABLES (PAEC)**

**Semesters: 2 Credits: 2**

**Grade Level: 11**

**Weight: 4.0 DOE# 0500**

**Course Description:**

Students in the Penn Academy of Early College will participate in a study hall class that serves the unique college-bound population. Early College teachers will lead the class and provide students with resources such as tutors, access to technology, and individual instruction to help students succeed. Students will participate in the Penn Freshman Mentoring program and PCC, Penn College and Career Exploration, course through the resource time.

**Penn# 2329/2330**



**ENGL 111 ENGLISH COMPOSITION / ENGL 215 RHETORIC AND ARGUMENT (PAEC)**

**Semesters: 2 Credits: 2**

**Grade Level: 11**

**Prerequisites:** Passing score on the English Accuplacer Tests OR "C" or higher in ENG 095

**Weight:** 4.5 **DOE#** 1006/1098

**DOE- English 11 / Advanced**

**Composition**

**College Credits:** 6

**Course Description:**

English composition is designed to develop students' abilities to think, organize, and express their ideas clearly and effectively in writing. This course incorporates reading, research and critical thinking. Emphasis is placed on the various forms of expository writing such as process, description, narration, comparison, analysis, persuasion, and argumentation. A research paper is required. Numerous in-class writing activities are required in addition to extended essays written outside of class. E112 continues the work of 111, emphasizing the persuasion and argumentation aspects of writing. Unique to EC English 111/112 is the cross-curricular project based learning incorporated.

**Penn#** 2333 

**CHEM 101 INTRODUCTION TO CHEMISTRY (PAEC)**

**Semesters:** 2 **Credits:** 2

**Grade Level:** 11

**Prerequisites:** Demonstrated competency through appropriate assessments or a passing score on the math Accuplacer or PSAT.

**Weight:** 4.5 **DOE#** 3066

**DOE- Chemistry II**

**College Credits:** 3

**Course Description:**

An introductory course that includes the science of chemistry and measurement, atomic theory and the periodic table, chemical bonding,

equation writing and balancing, stoichiometry, gases and acids/bases.

**Penn#** #2331/2332 

**HIST 101 SURVEY OF AMERICAN HISTORY I / HIST 102 SURVEY OF AMERICAN HISTORY II (PAEC)**

**Semesters:** 2 **Credits:** 2 **Grade**

**Level:** 11

**Prerequisites:** Topics of History, Passing score on the English Accuplacer Tests OR "C" or higher in ENG 095

**Weight:** 4.5 **DOE:** 1542

**DOE- United States History**

**College Credits:** 6

**Course Description:**

Covers major themes and events in history including exploration of the New World; the colonial period; causes and results of the American Revolution; the development of the federal system of government; the growth of democracy; early popular American culture; territorial expansion; slavery and its effect; reform movements, sectionalism; causes and effects of the Civil War, the post-Civil War period; western expansion, industrial growth of the nation and its effects; immigration and urban discontent and attempts at reform; World War I; the Roaring Twenties; social and governmental changes of the thirties; World War II and its consequences; the growth of the federal government; social upheaval in the sixties and seventies; and recent trends in conservatism, globalization, and cultural diversity.

**Penn#** 2337/2338 

**SPAN 101 SPANISH LEVEL 1 / SPAN 102 SPANISH LEVEL 2 (PAEC)**

**Semesters:** 2 **Credits:** 2 **Grade**

**Level:** 11

**Prerequisites:** Passing score on the English Accuplacer Tests OR "C" or higher in ENGL 095

**Weight:** 4.5 **DOE#** 2124

**DOE-Spanish III**

**College Credits:** 8

**Course Description:**

Ivy Tech Span 101/102 is a dual credit course designed to introduce students to the Spanish language and focuses on all four language skills: listening, speaking, reading, and writing. Students will move more quickly through grammar topics that they have been introduced to in their first two years of preparatory study. It is also designed for students to speak Spanish in class as much as possible. Students will study more challenging grammar that includes multiple tenses and moods. Ivy Tech Span 101/102 provides students with the opportunity to Master basic Spanish vocabulary and grammar, Understand simple oral communication about familiar topics, Speak in complete sentences about specific topics, Ask and answer questions on everyday topics in the present tense, Write simple standard expressions, complete sentences and short paragraphs, Read and discuss simple paragraphs and articles which may include literary and cultural works, Understand cultural traits and geography of the Spanish speaking world, Demonstrate knowledge, understanding and appreciation of the Spanish language and cultures of the Spanish-speaking world.

**Penn#** 2339 OR 2340 

**COMM 101 FUNDAMENTALS OF PUBLIC SPEAKING (PAEC)**

**Semesters:** 1 **Credits:** 1

**Grade Level:** 11

**Prerequisites: Passing score on the English NextGen Tests**

**Weight: 4.5 DOE# 1078**

**DOE- Advanced Speech and Communication**

**College Credits: 3**

**Course Description:**

Comm 101 is the study and application of fundamental concepts and skills for effective public speaking, including audience analysis, outlining, research, delivery, critical listening and evaluation, and use of appropriate technology. Students deliver different types of oral and multimedia presentations, including speeches to inform, to entertain, and to persuade through the use of impromptu, extemporaneous, or manuscript delivery.

**Penn# 2341/2343** 

**MATH 136 COLLEGE ALGEBRA / MATH 137 TRIGONOMETRY WITH ANALYTIC GEOMETRY (PAEC)**

**Semesters: 2 Credits: 2**

**Grade Level: 11**

**Prerequisite: Algebra II and a passing score on the Math Accuplacer or PSAT**

**This course is weighted on a 4.5 scale.**

**Weight: 4.5 DOE# 2564/2566**

**DOE-Pre-Calculus/Trigonometry**

**College Credits: 6**

**Course Description:**

136 Presents an in-depth study of functions, quadratic, polynomial, radical, and rational equations, radicals, complex numbers, systems of equations, rational fractions and exponential and logarithmic functions. 137 Presents an in-depth study of right triangle trigonometry, oblique triangles, vectors, graphs of trigonometric functions, trigonometric identities and equations and complex numbers in

rectangular and polar/ trigonometric forms, rectangular and polar coordinates and conics.

**Penn# 2389** 

**MATH 136 COLLEGE ALGEBRA (PAEC)**

**Semesters: 2 Credits: 2 Grade**

**Level: 11-12**

**Prerequisites: Algebra II and Geometry**

**Weight: 4.5 DOE# 2564**

**DOE-Pre-Calculus**

**College Credit: 3**

**COURSE DESCRIPTION:**

This course is designed for students that need additional work in Algebra before attempting Pre-calculus. College Algebra – Ivy Tech 136 presents an in-depth study of functions, quadratic, polynomial, radical, and rational equations, radicals, complex numbers, systems of equations, rational fractions and exponential and logarithmic functions. Ivy Tech Credit may be earned. Topical areas of study include: Quadratic, polynomial, rational and radical equations, Complex Numbers, Exponential and logarithmic functions, Radicals and rational expressions, Graphs of equations and functions, Variation, and Systems of equations.

## **12th GRADE COURSE INFORMATION**

**Penn# 2346/2369** 

**ENGL 206 INTRODUCTION TO LITERATURE / ENGL 202 CREATIVE WRITING (PAEC)**

**Semesters: 2 Credits: 2**

**Grade Level: 12**

**Prerequisites: ENGL 111/112**

**Weight: 4.5 DOE# 1124**

**DOE-Advanced English/Language Arts**

**College Credit: 6**

**Course Description:**

ENGL 206 Development of basic strategies for critically reading and interpreting poetry, fiction, and drama; introduction to the premises and motives of literary analysis and critical methods associated with various literary concerns through class discussion and focused writing assignments. ENGL 202 This course introduces students to opportunities for self-expression in one or more literary genres - fiction, poetry, drama, and the creative essay. Creative writing will be conducted using a workshop model; students will share their writing with each other and collaborate in response groups to give and receive feedback.

**Penn# 2347 OR 2348** 

**POLS 101 INTRODUCTION TO AMERICAN GOVERNMENT AND POLITICS (PAEC)**

**Semesters: 1 Credits: 1**

**Grade Level: 12**

**Prerequisites: Demonstrated competency through appropriate assessment or earning a grade of "C" or better in ENGL 095.**

**Weight: 4.5 DOE# 1540**

**DOE- United States Government**

**College Credit: 3**

**Course Description:**

Studies federalism, theories of origins and purposes of government and other aspects of the American government including interest groups, political parties, and the electoral process. Emphasis is placed on constitutional backgrounds and the organization and functions of the executive, legislative, and judicial segments of the national government, civil liberties and civil rights, public opinion, media,

bureaucracies, and domestic and foreign policy.

**Penn# 2355** 

**BIOL 101 INTRODUCTORY BIOLOGY (PAEC)**

**Semesters: 2 Credits: 2**

**Grade Level: 12**

**Prerequisites: Demonstrated competency through appropriate assessment or earning a grade of "C" or better in ENGL 095 Integrated Reading and Writing.**

**Weight: 4.5 DOE# 3026**

**DOE- Biology II**

**College Credit: 3**

**COURSE DESCRIPTION:**

Introduces the basic concepts of life. Includes discussion of cellular and organismal biology, genetics, evolution, ecology, and interaction among all living organisms. Addresses applications of biology in a global community.

**Penn# 2367**  

**MATH 135 FINITE MATH (PAEC)**

**Semesters: 2 Credits: 2 Grade Level: 12**

**Prerequisites: MATH 136/MATH 137**

**Weight: 4.5 DOE# 2530**

**DOE-Finite Mathematics**

**College Credit: 3**

**Course Description:**

This course is designed for college bound students. Topics include solving and graphing linear equations and inequalities, elementary set theory, matrices and their applications, linear programming, and elementary probability. This is a standard finite mathematics course. Ivy Tech Credit may be earned.

**Penn# 2353** 

**MATH 211 CALCULUS I (PAEC)**

**Semesters: 2 Credits: 2 Grade**

**Level: 12**

**Prerequisites: Demonstrated competency through appropriate assessment or successful completion Math 136 College Algebra and Math 137 Trigonometry with Analytic Geometry.**

**Weight: 4.5 DOE# 2527**

**DOE- Calculus**

**College Credit: 4**

**Course Description:**

Reviews the concepts of exponential, logarithmic and inverse functions. Studies in depth the fundamental concepts and operations of calculus including limits, continuity, differentiation including implicit and logarithmic differentiation. Applies differential calculus to solve problems in the natural and social sciences, to solve estimation problems and to solve optimization problems. Applies differential calculus to sketch curves and to identify local and global extrema, inflection points, increasing/decreasing behavior, concavity, behavior at infinity, horizontal and vertical tangents and asymptotes, and slant asymptotes. Applies the concept of Riemann sums and antiderivatives to find Riemann integrals. Applies the fundamental theorem of calculus to solve initial value problems, and to find areas and volumes and the average values of a function.

**Penn#2351/2352**  

**SPAN 201 SPANISH LEVEL III / SPAN 202 SPANISH LEVEL IV (PAEC)**

**Semesters: 2 Credits: 2 Grade Level: 12**

**Prerequisites: Spanish 102 /201 or demonstrated competency through appropriate assessment; demonstrated earning a grade of**

**"C" or better in ENGL 095 Integrated Reading and Writing.**

**Weight: 4.5 DOE# 2126**

**DOE- Spanish IV**

**College Credit: 6**

**Course Description:** [IDOE 2126]

Spanish is the primary medium of instruction. The goal of the course is to continue the development and reinforcement of the skills of the target language: listening, speaking, reading and writing at an intermediate level. The course continues the study of grammar and syntax, vocabulary building, and Spanish and Latin American civilizations, cultures, and literature through discussion and written and oral reports.

**#2365/2366** 

**GENS 279 GENERAL STUDIES**

**CAPSTONE COURSE (PAEC)**

**Semesters: 1 Credits: 1 Grade**

**Level: 12**

**College Credits: 3**

**Course Description:**

For the Early College Capstone Project, students will develop a semester-long multimedia project guided by an early college staff member. Students will be mentored in this endeavor, culminating in a reflective final project and presentation at the end of the semester which highlights one or multiple aspects of their education throughout their tenure in the Early College program at Penn, as well as potentially directing them toward their future path. This course will require both independent study and class instruction.

## **FRESHMAN ACADEMY**

**Penn# 0301**



**ENGLISH 9**

**Semesters: 2 Credits: 2 Grade**

**Level: 9**

**Weight: 4.0 DOE# 1002**

**Course Description:**

The focus of this course is to increase student understanding of our common humanity through literature and to develop reading, writing and speaking skills. A synthesis of all the components of language arts is emphasized: literature, composition, research, grammar, usage, mechanics, public speaking, and vocabulary. Assessments include narrative writing, summary writing, thesis-based essays, and journal writing. Students will study novels, short stories, poetry and drama and informational texts. English 9 students will complete multiple writing requirements including process papers and timed writing.

**Penn# 0305**



**ENGLISH 9 HONORS**

**Semesters: 2 Credits: 2 Grade**

**Level: 9**

**Weight: 4.0 DOE# 1002**

**Course Description:**

This course is designed for the highly motivated student who has demonstrated a high reading level and a reasonable mastery of written and spoken English. The focus of this course is to increase student understanding of our common humanity through literature and to continue communication and skill

development. A synthesis of all the components of language arts is emphasized: literature, composition, research, grammar, usage, mechanics, public speaking, and vocabulary. Assessments include narrative writing, summary writing, thesis-based essays, and journal writing. Students will study novels, short stories, poetry, drama and informational texts. Students will be expected to complete independent reading and writing, both in the summer and during the school year. English 9 Honors students will complete multiple writing requirements including process papers and timed writing.

**Penn# 0355**

**DEVELOPMENTAL READING I**

**Semesters: 2 Credits: 2 Grade**

**Level: 9**

**Prerequisite: Test results, teacher referral, and counselor recommendation**

**Weight: 4.0 DOE# 1120**

**Course Description:**

This course is intended to support and enhance a student's experience with the Penn High School Freshman Academy curriculum by helping students develop an understanding of themselves as readers and writers while acquiring the strategies used by highly effective readers and writers. The goal is to use contemporary, high-interest, accessible texts as the foundation around which and through which students build personal literacy identities and literacy processes. The goal is not to teach specific texts or to re-teach English 9 curriculum. Instead, students who leave this course will better understand themselves as readers and writers and, therefore, will be more strategic about how they approach reading, writing, and learning tasks. Armed with this newfound

confidence, students will find themselves more prepared to engage successfully with the many learning opportunities that are offered here at Penn High School. This is an elective course; it does not satisfy the state English graduation requirement. This elective will help students start their educational career here at Penn High School on a positive note.

**Penn# 0905**



**BIOLOGY I**

**Semesters: 2 Credits: 2 Grade**

**Level: 9**

**Weight: 4.0 DOE# 3024**

**Course Description:**

The course highlights how biology has both personal and global implications in human lives. To help students develop into productive and responsible citizens, they will make connections between biological concepts and real life applications. Through regular use of Science and Engineering Practices, laboratory investigations, projects, reading, research, group discussion, computer simulations, and videos, Biology I provides a study of four major themes: Biochemistry and Cells – organic molecules, cellular components and functions, Ecology – study of relationships between living organisms and the environment, Genetics – study of heredity and inheritance of traits, Evolution - mechanism for change over time and the diversity of life. In the spring, students will take Indiana Statewide Testing for ILEARN in Biology.

**Penn# 0907**



**BIOLOGY I HONORS**

**Semesters: 2 Credits: 2 Grade**

**Level: 9**

**Weight: 4.0 DOE# 3024**

**Course Description:**

**Students with an A or B in any 8th grade science should take this course.** The course highlights how biology has both personal and global implications in human lives. To help students develop into productive and responsible citizens, they will make connections between biological concepts and real life applications. Through regular laboratory investigations, projects, reading, research, group discussion, computer simulations, and videos, Biology I Honors provides a study of four major themes: Biochemistry and Cells –organic molecules, cellular components and functions, Ecology – the study of relationships between living organisms and the environment, Genetics – the study of heredity and inheritance of traits, Evolution- the mechanism for change over time and the diversity of life.

**Penn# 1105****GEOGRAPHY AND HISTORY OF THE WORLD HONORS****Semesters: 2 Credits: 2 Grade****Level: 9****Weight: 4.0 DOE# 1570****Course Description:**

Students develop and use the six elements of geography to better understand current events and issues facing the world today. These elements are: The World in Spatial Terms, Places and Regions, Physical Systems, Human Systems, Environment and Society, and the Uses of Geography. Students will demonstrate an understanding of these elements of geography in the context of world history, primarily from 1450 to the present. This geographic and historical framework provides students a unique insight. This course will focus on

fundamental questions, such as “Where is something? Why is it there? How did it get there? How does it interact with other things? What does it mean for the future? How does geography shape the past, present and future?” The primary subject matter is the Earth’s surface and the processes that shape it; the historical context connecting people and environments; the skills necessary to read maps, graphs and other geographic data; and the skills required to conduct research and improve writing skills.

**Penn# 1169****GEOGRAPHY AND HISTORY OF THE WORLD HONORS****Semesters: 2 Credits: 2 Grade****Level: 9****Weight: 4.0 DOE# 1570****Course Description:**

Honors Geography focuses on integrating the spatial and ecological geographic perspectives. Using critical thinking, analysis and assessments the course aims to allow students to study the inter-dependency of the Earth’s physical and human systems, putting humans and the earth in context. The course supplements these perspectives with historic, economic, civic and cultural perspectives to frame a distinctly geographic way of looking at the world.

**Penn# 0717****ALGEBRA I****Semesters: 2 Credits: 2 Grade****Level: 9****Weight: 4.0 DOE# 2520****Course Description:**

The Mathematics standards for Algebra I are made up of 5 strands: Real Numbers and Expressions; Functions; Linear Equations, Inequalities, and

Functions; Systems of Equations and Inequalities; Quadratic and Exponential Equations and Functions; and Data Analysis and Statistics. Algebra 1 is a required course for graduation.

**Penn# 0713****ALGEBRA II HONORS****Semesters: 2 Credits: 2 Grade****Level: 9****Prerequisite: Algebra I and Geometry****Weight: 4.0 DOE# 2522****Course Description:**

**Students with an A or B in Algebra and Geometry should take this course.** The Mathematics standards for Algebra II are made up of 5 strands: Complex Numbers and Expressions; Functions; Systems of Equations; Quadratic Equations and Functions; Exponential & Logarithmic Equations and Functions; Polynomial, Rational, and Other Equations and Functions; and Data Analysis, Statistics, and Probability. This course is for students with superior performance in math. Compared to Algebra II, the pace of this course is accelerated and topics are covered in greater depth. Students will gain experience using the graphing calculator. A scientific calculator is required and a graphing calculator is highly recommended.

**Penn# 0725****GEOMETRY ACCELERATED****Semesters: 2 Credits: 2 Grade****Level: 9****Prerequisite: Algebra I****Weight: 4.0 DOE# 2532****Course Description:**

**Students with an A or B in Algebra I should take this course.** The Mathematics standards for Geometry are made up of 5 strands: Logic and

Proofs; Points, Lines, Angles, and Planes; Triangles; Quadrilaterals and Other Polygons; Circles; Transformations; and Three-dimensional Solids. Algebra Skills will be reviewed in this course. A scientific calculator is required.

# ENGLISH

Grade 9

English 9  
(301)

or

English 9  
Honors  
(305)

Grade 10

English 10  
(307)

or

English 10  
Honors  
(311)

Grade 11

English 11  
(313)

or

Pre-AP  
English 11  
(Honors)  
(319)

Grade 12

English 12  
(321)

or

English 12:  
Ivy Tech 111/215  
(398/399)  
Use 398 to schedule

or

AP English  
Language and  
Composition/  
AP US History  
Seminar  
(327)

ACP English  
Composition  
(325)  
ACP English  
Literature  
(326)  
Use 325 to schedule

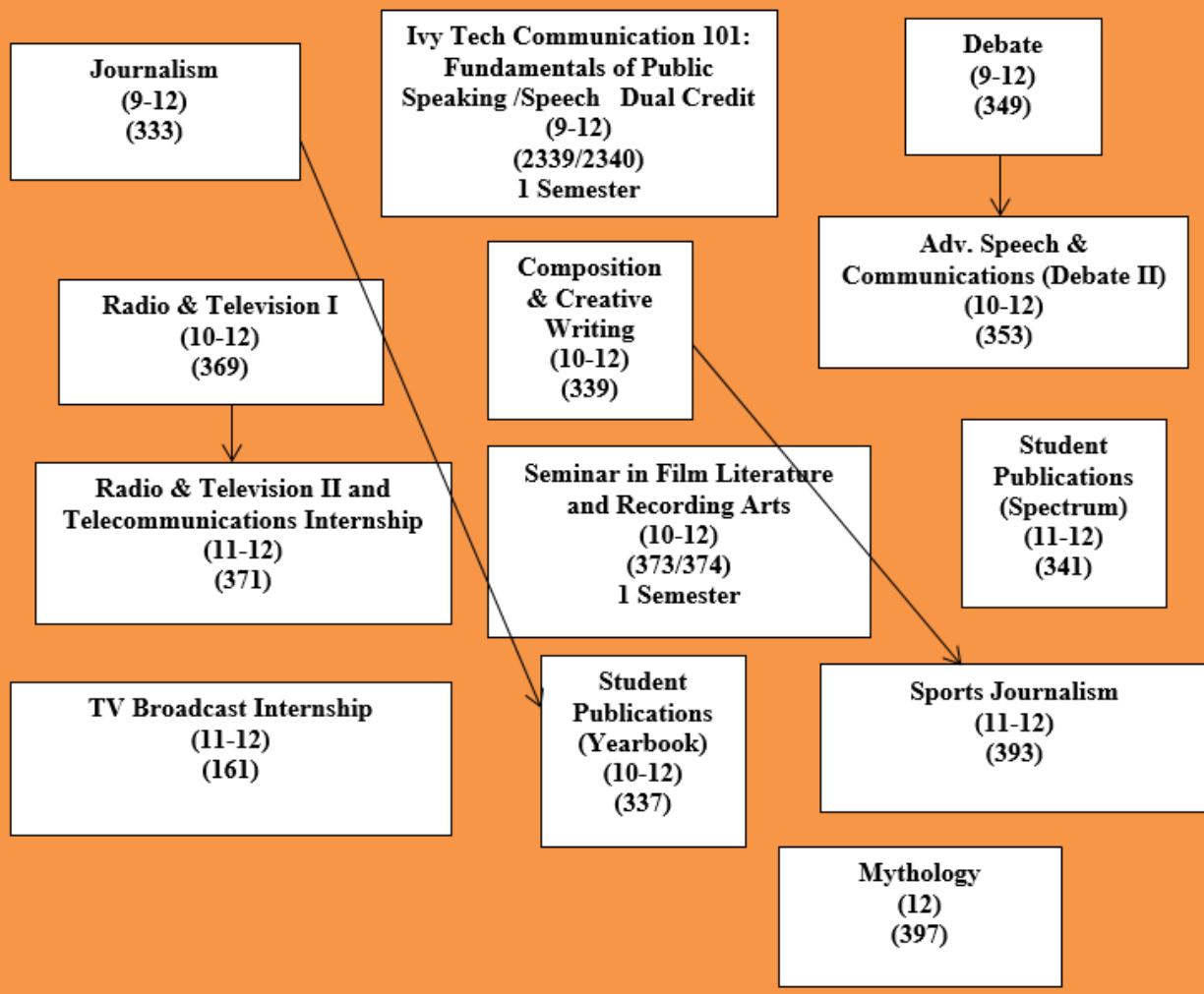
or

AP English  
Language and  
Composition  
(315)

AP English  
Literature and  
Composition  
(329)

NOTE: Students must take four years of English, selecting one required course from each grade level. In addition to the required classes, students may also take classes from the electives list.

# English Electives



## ENGLISH

**Penn# 0307**



**ENGLISH 10**

**Semesters: 2 Credits: 2 Grade**

**Level: 10**

**Prerequisites: English 9**

**Weight: 4.0 DOE# 1004**

**Course Description:**

This course will give students an opportunity to improve and practice their basic communication skills through reading, writing, listening, and speaking. Students will learn how to present their ideas logically and coherently, how to present appropriate supporting details, and how to draw conclusions. Comprehension of vocabulary, literature, non-fiction, informational texts and poetry are core components of the course. Students write responses to literature, argumentative compositions, and sustained research assignments. Students deliver grade-appropriate oral presentations with attention to audience and purpose and access, analyze, and evaluate online information. Each semester students will write process papers and timed essays as unit summative assessments.

**Penn# 0311**



**ENGLISH 10 HONORS**

**Semesters: 2 Credits: 2 Grade**

**Level: 10**

**Prerequisites: English 9**

**Weight: 4.0 DOE# 1004**

**Course Description:**

English 10 Honors is designed to prepare students for success in future AP classes, as well as success in college and careers in general. This course is fundamentally different from the regular English 10 course in that this course pushes students to mastery of College Board Standards for College Success. This course emphasizes complexity of thought over difficulty of tasks. It is for students who are motivated, who are willing to work hard, who enjoy challenges, and who are able to work independently. Students analyze a variety of fiction and non-fiction pieces of literature, as well as informational texts, to explore the characteristics of quality writing. Students write responses to literature, argumentative compositions, and sustained research assignments. Students deliver grade-appropriate oral presentations with attention to audience and purpose and access, analyze, and evaluate online information. Students will complete several formal writing assignments including essays of personal experience, literary analysis and research, as well as timed writing essays given as unit summative assessments.

**Penn# 0379**

**DEVELOPMENTAL READING II**

**Semesters: 2 Credits: 2 Grade**

**Level: 10-12**

**Prerequisite: Test results, teacher referral, and counselor recommendation**

**Weight: 4.0 DOE# 1120**

**Course Description:**

This course is intended to support and enhance a student's experience with the Penn High School curriculum by helping students develop an understanding of themselves as readers and writers while acquiring the strategies used by highly effective readers and writers. The goal is to use contemporary, high-interest, accessible texts as the foundation around which and through which students build personal literacy identities and literacy processes. The goal is not to teach specific texts or to re-teach English curriculum. Instead, students who leave this course will better understand themselves as readers and writers and, therefore, will be more strategic about how they approach reading, writing, and learning tasks. Armed with this newfound confidence, students will find themselves more prepared to engage successfully with the many learning opportunities that are offered here at Penn High School. This is an elective course; it does not satisfy the state English graduation requirement. This elective will help students continue their educational career here at Penn High School on a positive note.

**Penn# 0313**



**ENGLISH 11**

**Semesters: 2 Credits: 2 Grade**

**Level: 11**

**Prerequisite: English 10**

**Weight: 4.0 DOE# 1006**

**Course Description:**

English 11 surveys American literary theme, emphasizing major writers and their works in relation to historical periods and common motifs. The

literary styles and genres of the major literary movements will be studied. Readings will be derived from a variety of sources, including required novels and plays. Several literary selections will emphasize cultural diversity. Students will analyze literature through discussion and writing. A variety of learning techniques and student-centered activities involving oral communication, critical thinking, peer editing, collaboration, prewriting, drafting and revision will be used. Reading and writing will be treated as interrelated processes in the study of the American experience. SAT vocabulary study will be included.

**Penn# 0327/1161** 

**AP® ENGLISH LANGUAGE &  
COMPOSITION/  
AP® US HISTORY SEMINAR**

**Semesters: 2 Credits: 4 Grade  
Level: 11**

**Prerequisite: English 10**

**Weight: 5.0 DOE# 1056/1562**

**Course Description:**

Enrollment in AP® Language/AP® U.S. History Seminar signals a decision to begin studying language and history at the college level. Students will receive **2 Credits in AP® Lang & 2 Credits in AP® US History**.

Advanced Placement® courses are modeled after college freshman courses and are designed for motivated students who have the desire and determination to gain Advanced Placement® credit while still in High School. This seminar will integrate literature with history and will encompass history and literature from the Age of Exploration to present-day America. In addition, the course will emphasize collaborative learning, providing students with the opportunity

to further develop both their practical, problem-solving skills and their analytical skills. Finally, students will redefine their ability to respond to non-fiction texts with fluency, clarity, and accuracy. Students who enroll in this course must possess strong writing and critical thinking skills as demonstrated by their work in previous English and Social Studies classes.

**Penn# 0315** 

**AP® ENGLISH LANGUAGE &  
COMPOSITION**

**Semesters: 2 Credits: 2 Grade  
Level: 11**

**Prerequisites: English 10**

**Weight: 5.0 DOE# 1056**

**Course Description:**

Advanced Placement® Language and Composition is modeled after a college freshman composition course designed for motivated juniors who are committed to the study of writing and who have the determination to gain college credit or Advanced Placement® in English while still in high school. Study is centered on the analysis and creation of non-fiction essays. The purpose of the course is to develop the student's ability to compose essays which demonstrate fluency, clarity, and accuracy. Students will read and analyze significant works of American literature, predominantly nonfiction, from the pre-colonial era through the present time, emphasizing major writers and their works in relation to historical and literary periods, themes, and literary terms. Students who enroll in this course must possess strong writing and critical thinking skills as demonstrated by their work in previous English classes. All students enrolled in this course will take the AP®

Language and Composition exam in the spring.

**Penn# 0320/1179**



**ACP US HISTORY and ENGLISH 11  
HONORS SEMINAR**

**Semesters: 2 Credits: 4 Grade  
Level: 11**

**Prerequisite: English 10 AND meet  
I.U. admissions requirements**

**Weight: 5.0 DOE# 1006/1542**

**IU- HIST-H 105 American History I /  
HIST-H 106 American History II**

**College Credits: 6**

**Course Description:**

This is a college course designed for capable juniors who meet the standards of academic rigors and success equaling those of a college freshman. Students will receive **2 HS Credits in English 11 Honors & 2 HS Credits in ACP US History**.

Although this course is offered to meet Indiana's state standards for US History credit, its applicants must meet guidelines prescribed by Indiana University. Students will earn six credit hours that are accepted at not only Indiana University, but all other state schools as well as over 700 colleges and universities across the country. The student will be awarded a weighted grade for the history portion of the class. The course will focus on various themes beginning with the age of exploration and continuing through the Reagan presidency. Students will focus on these themes through various strategies including reading primary and secondary sources, and historical writing projects and presentations. ACP United States History is a course that allows students an in-depth study of the history of our great nation. Students are awarded three credit hours per semester for earning a C or better. Students must meet admission

requirements to attend Indiana University if they are taking the course for I.U. credit. The course will also develop students' skills in writing, critical thinking, literary analysis, and close reading. Texts that support the historical context will be explored including poetry, short stories, novels, etc. Students will be asked to work individually as well as collaboratively throughout the year.

**Penn# 0321**   
**ENGLISH 12**  
**Semesters: 2 Credits: 2 Grade**  
**Level: 12**  
**Prerequisite: English 11**  
**Weight: 4.0 DOE# 1008**

**Course Description:**

This course is a culminating language arts experience for seniors. It seeks to pursue these essential questions: What are the antecedents of modern media representations in our culture? How do modern media representations affect culture and society? What problems do we see with representations of race, class, gender and sexuality in modern media? Students will be challenged to summarize, analyze, and synthesize reading, speaking, viewing, and listening experiences through the writing process. Students will write frequent informal writing pieces, as well as formal, full-process essays that include multiple drafts and revisions. Students will write grade-appropriate fictional narrative, responses to literature and media, historical/research-based reports, and create and deliver multimedia presentations. The curriculum will be a rich mixture that includes classic literature, poetry, music, sports and current events, mythology, art, film, television, and other popular culture texts and media. This will be a unique class environment

that requires an interactive, engaged approach by the student; in return, the instructor will provide relevant, exciting content that ranges from Homer to Edgar Allan Poe to Christopher Nolan. Ultimately, this course can unlock the potential for students to become producers of media rather than mere consumers of it.

**Penn# 0398/0399**   
**ENGLISH 12: IVY TECH**

**Semesters: 2 Credits: 2 Grade**

**Level: 12**

**Prerequisite: English 11**

**Weight: 4.5 DOE# 1008**

**Ivy Tech- ENGL 111 English Composition & 215 Rhetoric and Argument**

**College Credits: 6**

**Course Description:**

English composition is designed to develop students' abilities to think, organize, and express their ideas clearly and effectively in writing. This course incorporates reading, research and critical thinking. Emphasis is placed on the various forms of expository writing such as personal, comparison, analysis, persuasion, and argumentation. Students wishing to take the class for dual credit need to meet the IVY Tech requirements for admission. This course focuses entirely on non-fiction texts and writing. This is not a literature course. A research paper is required. Numerous in-class writing activities are required, in addition to extended essays written outside of class. ENGL 215 continues the work of 111, emphasizing the persuasion and argumentation aspects of writing.

**Penn# 0325/0326** 

**ACP COMPOSITION & LITERATURE**

**Semesters: 1 or 2 Credits: 1 or 2**

**Grade Level: 12**

**Prerequisites: English 11 AND IU admission requirements**

**Weight: 5.0 DOE# 1124**

**IU- ENG-W 131 Reading, Writing, & Inquiry I / ENG-L 202 Literary Interpretation**

**College Credits: 3-6**

**Course Description:**

Each semester of ACP (Advance College Project) is a dual credit course offered through Indiana University and transferable to more than 400 colleges and universities nation-wide, meaning that the course fulfills the credit requirements for Penn High School's English 12 and for college-level English (W131, college-level freshman composition in the fall and L202, college-level sophomore literary analysis in the spring.) Students are awarded three college credit hours for each semester in which they earn a grade of C or better, so they start building college transcripts and earning college credit while still in high school. By participating in the ACP program, students can prepare themselves for the rigors of college classes at their own pace by taking one or two classes per semester in high school. Indiana University carefully screens applicants so that those who are accepted are likely to be successful. ACP courses are carefully monitored by Indiana University, and the instructors are specially trained so that the classes at the high school mirror what is offered on the college campus. The program offers challenging material for the college-bound student.

**Penn# 0329** 

**AP® ENGLISH LITERATURE & COMPOSITION**

**Semesters: 2 Credits: 2 Grade**

**Level: 12**

**Prerequisites: 11th Grade English Course**

**Weight: 5.0 DOE# 1058**

**Course Description:**

Advanced Placement® English Literature and Composition is a course based on the content established and copyrighted by the College Board. Because the AP® English Literature and Composition course aligns to an introductory college-level literature and writing curriculum, AP® English Literature and Composition is designed for the able and ambitious high school student who is committed to the close study of literature and who has the desire and determination to gain college credit or advanced placement in English while still in high school. The course focuses on reading, analyzing, and writing about imaginative literature (fiction, poetry, drama) from various periods. Students engage in close reading and critical analysis of imaginative literature to deepen their understanding of the ways writers use language to provide both meaning and pleasure. As they read, students consider a work's structure, style, and themes, as well as its use of figurative language, imagery, and symbolism. Writing assignments includes expository, analytical, and argumentative essays that require students to analyze and interpret literary works. All students enrolled in this course will take the AP® Literature and Composition exam in the spring. NOTE: Students will complete a summer reading assignment. The summer reading will be posted online and will be available from current AP® Literature instructors. Students enrolled in AP® Literature are expected to have all summer reading completed by Labor Day.

**Penn# 2339 OR 2340 **

**ADVANCED SPEECH AND COMMUNICATION**

**Semesters: 1 Credits: 1 Grade**

**Level: 9-12**

**Weight: 4.5 DOE# 1078**

**IVY TECH COMM 101 Fundamentals of Public Speaking**

**College Credit: 3**

**Course Description:**

This is a dual-credit course that will allow students an opportunity to earn 3 college-level credits. COMM 101 introduces fundamental concepts and skills for effective public speaking, including audience analysis, outlining, research, delivery, critical listening and evaluation, presentational aids, and use of appropriate technology, class lecture, class discussion, student presentations, and other active learning techniques will be used in this course. A prerequisite is required for the Ivy Tech portion of the course.

**Penn# 0349 **

**DEBATE**

**Semesters: 2 Credits: 2 Grade**

**Level: 9-12**

**Weight: 4.0 DOE# 1070**

**Counts as 1 english/language arts credit**

**Course Description:**

In this course, speaking skills will be developed with specific emphasis on logical thinking, analysis, research, statistics, persuasion and argumentation. The course will cover the following types of public speaking: two-person debate, Lincoln-Douglas debate, extemporaneous and impromptu speaking, and Student Congress.

**Penn# 0353 **

**CRITICAL THINKING AND ARGUMENTATION**

**Semesters: 2 Credits: 2 Grade**

**Level: 10-12**

**Prerequisite: Debate I**

**Weight: 4.0 DOE# 1074**

**Counts as an english/language arts credit**

**Course Description:**

This course is for students interested in further developing their speaking skills. Increased emphasis will be placed on logical thinking, analysis, research, statistics, persuasion and argumentation, as they apply to the current National Debate Topic. Specific emphasis will be given to advanced forms of affirmative cases and negative strategies.

**Penn# 0333 **

**JOURNALISM**

**Semesters: 2 Credits: 2 Grade**

**Level: 9-12**

**Weight: 4.0 DOE# 1080**

**Course Description:**

In addition to encouraging students to develop civic literacy and an understanding of the power of today's media, this course will provide students with the theoretical and practical background in the field of journalism with an emphasis on training for eventual work on school productions. Students will realize the importance of accuracy, objectivity and conciseness in journalistic endeavors and will become media consumers. Students will practice extensively the techniques of newsgathering, interviewing, writing and copy editing. Students will also learn about effective design of publications, advertising, photography, and broadcasting.

**Penn# 0337**

**STUDENT MEDIA- YEARBOOK**

**Semesters: 2 Credits: 2 Grade**

**Level: 10-12**

**Weight: 4.0 DOE# 1086**

**Counts as Fine Arts credits for  
Academic Honors diploma**

**Course Description:**

This course emphasizes creative and informative writing as well as magazine design techniques. The yearbook class is responsible for the entire production of the school yearbook- a full 300 pages. The course heavily focuses on writing, online page design, business communication, and photography. Students must be able to self-discipline and attend events such as plays, concerts, dances, athletic events, and academic events. Each student will have their own individual responsibilities; evaluation will be based upon completion of these responsibilities. In order to meet deadlines, some work for select students will continue past the end of the school year by a handful of weeks. Students signing up for this course must also be aware that leaving this course will require a lengthy and strenuous process, so full-year committal is essential. Students will also need to sell advertising space as a part of the curriculum. This course can be taken multiple times.

**Penn# 0339/0340**



**CREATIVE WRITING &  
COMPOSITION**

**Semesters: 2 Credits: 2 Grade**

**Level: 10-12**

**Weight: 4.0 DOE# 1092&1090**

**Course Description:**

This course is designed for the student who enjoys writing and is interested in

developing an awareness of and techniques for effective creative expression in both prose and poetry. Students will be required to complete semester projects, compose short stories, keep journals on a regular basis, and complete various writing exercises aimed at expanding and polishing writing style. Students will be encouraged to submit their work to Spectrum, Penn's literary magazine. This is an elective English course that may be selected in addition to the required English courses.

**Penn# 0341**

**STUDENT MEDIA- SPECTRUM**

**Semesters: 2 Credits: 2 Grade**

**Level: 10-12**

**Prerequisite: Creative Writing and  
Composition**

**Weight: 4.0 DOE# 1086**

**Counts as Fine Arts credits for  
Academic Honors diploma**

**Course Description:**

Students who have taken Composition/Creative Writing may elect to enroll in Student Media- Spectrum. This course, designed for the serious writing student, continues to focus on the goals of journal writing, personal narrative, fiction and poetry, with the addition of the publication of Spectrum, Penn's literary magazine. Students will be involved in every aspect of the publishing process from the collection of work, to editing, to lay-out, and, finally, to disbursement. Some after-school time may be necessary as deadlines approach. This is an elective English course that may be selected in addition to the required English courses. This course can be taken multiple times.

**Penn# 0369**

**RADIO & TELEVISION I**

**Semesters: 2 Credits: 2 Grade**

**Level: 9-12**

**Weight: 4.0 DOE# 5986**

**Course Description:**

In this introductory class to mass media and journalism, students will develop media literacy through instruction and practice. Students will engage in all facets of production, and they will develop a portfolio of work that will include news-writing, broadcast production, multimedia stories, and storytelling in new and emerging media. Students will learn all aspects of production in the PNN television studio, and in the second semester, they will produce a daily news show for [pnn.phmschools.org](http://pnn.phmschools.org). This publications class lays the groundwork for further study in this field (and for Radio & Television II, 0371). More information can be found at [massmediastudies.net](http://massmediastudies.net).

**Penn# 0371**

**RADIO & TELEVISION II**

**Semesters: 2 Credits: 2 Grade**

**Level: 10-12**

**Prerequisite: Radio & TV I and  
Application**

**Weight: 4.0 DOE# 5992**

**Course Description:**

After taking Radio & Television I 0369, these publications students will continue their work in the PNN Studio and at [pnn.phmschools.org](http://pnn.phmschools.org). This class runs the newsroom and studio for 180 days, and they are responsible for providing Penn High School complete coverage of school news. These students shoot 90 shows per year, and compete in state and national competitions. As a requirement of the class, students are expected to work outside of school hours to cover events that include extra-curricular functions at Penn High School and in Saint Joseph County. Students can enroll in local production internships, and if eligible,

may take the class for dual credit. More information can be found at [massmediastudies.net](http://massmediastudies.net).

#### **Penn# 0373 OR 0374**

#### **FILM LITERATURE**

**Semesters: 1 Credits: 1 Grade**

**Level: 10-12**

**Weight: 4.0 DOE# 1034**

#### **Course Description:**

Beginning with media literacy, students participating in this class will not only develop a critical analysis of the moving picture medium, but they will also produce independent film projects. Students will examine production from the authoring of screenplays all the way through the production, and post-production stages of film creation. Instruction will be provided through selected readings, and the study of the history of filmmaking, utilization of various technologies, lab work, and time in the field producing independent film projects. Students will have the opportunity to screen their work in competitions and film festivals. The class will culminate with Penn High School's own Film Festival held in May. More information can be found at <http://massmediastudies.net>.

#### **Penn# 0161**

#### **TV BROADCAST INTERNSHIP (WBL)**

**Semesters: 2 Credits: 2 Grade**

**Level: 12**

**Weight: 4.0 DOE# 5974**

#### **Course Description:**

In this class, students may develop media literacy through instruction and practice, and they engage in all facets of production in the PNN television studio. Students may also participate in a professional internship with local Media companies. Members of the class produce a variety of projects in the studio, and they take them from concept to complete. Students develop

a portfolio of work that includes television productions, news segments, music videos, public service announcements, commercial spots, live broadcasts, and multimedia stories. Students gain experience in all aspects of production in the PNN television studio, and they sometimes produce news shows for [pnn.phmschools.org](http://pnn.phmschools.org). This publications class lays the groundwork for further study in this field and other publications classes such as MASS MEDIA / TECH COMM II, 0371. More information can be found at [massmediastudies.net](http://massmediastudies.net).

#### **Penn# 0397**

#### **THEMES IN LITERATURE- MYTHOLOGY**

**Semesters: 2 Credits: 2 Grade**

**Level: 10-12**

**Weight: 4.0 DOE# 1048**

#### **Course Description:**

Are you the type of student who reads the latest Rick Riordan, fantasy, or Harry Potter novel late into the night? Or perhaps you're a student who has been waiting for a chance to take Mythology to learn about those characters and cultures you've been missing out on. For any of you who fit one of these categories, or those who are simply interested in delving into something new, the new Myth elective is for you. This course is designed for those students who wish to examine common ideas and themes from various cultures. The course will include traditional Greek and Roman mythology, but will branch out to include Norse, Celtic, Egyptian, Asian, North American, South American (including Mayan and Aztec), and African. One aim of the course is to show common concerns and beliefs among the various cultures and make connections to modern life today. In addition, the course strives to give

students an underlying knowledge from which to draw in the future.

#### **Penn# 0393**

#### **SPORTS JOURNALISM**

**Semesters: 2 Credits: 2 Grade**

**Level: 10-12**

**Weight: 4.0 DOE# 1086**

**Counts as Fine Arts credits for  
Academic Honors diploma**

#### **Course Description:**

Students will promote athletics at Penn High School and provide information about Penn athletics through a variety of ways. Students will produce content for sports publications and a Penn athletics website. Sports journalism students will also create a recruiting center website that would post profiles and video highlights of Penn student-athletes to showcase athletes to college recruiters. In addition, students will produce profiles of Penn student-athletes and create media notes to be distributed to local and state media, promoting Penn student-athletes for all-state honors. Students will also be involved in video interviews with Penn student-athletes, putting together video highlight packages featuring Penn student-athletes, and broadcasting Penn athletic events. Students will also market Penn athletic events.

#### **Penn# 1655**

#### **BASIC SKILLS DEVELOPMENT: ENL STRATEGIES**

**Semesters: 2 Credits: 2 Grade**

**Level: 9-12**

**Prerequisite: WIDA Scores**

**Weight: 4.0 DOE# 0500**

#### **Course Description:**

Basic Skills Development is a multidisciplinary course which provides students continuing opportunities to develop basic skills in the areas of: (1) reading, (2) writing, (3) listening, (4)

speaking, (5) academic language, (6) note-taking, (7) mass-media, (8) and problem-solving skills that are essential for high school course work achievement. Course content is based on the Indiana State proficiencies & WIDA standards, individual school corporation curriculum plans, and student Individualized Learning Plans (ILP). Credits earned in this course are elective credits. For more information about the English as a New Language program, visit [enl.phmschools.org](http://enl.phmschools.org)

**Penn# 1658**

**ENL - INTERNATIONAL SEMINAR**

**Semesters: 2 Credits: 2 Grade**

**Level: 9-12**

**Prerequisite: WIDA Scores**

**Weight: 4.0 DOE# 1012**

**Course Description:**

Students enrolled in the International Seminar class focus on the active application of language in order to address global issues & problems. Students stay abreast of current world events through weekly readings. They recount, explain, argue and discuss current issues in a seminar format. As a team, these students use mass-media to craft, publish, and distribute new stories about contemporary topics and problems on a PNN mass-media channel.

# ART

Students are encouraged to explore all of the visual arts courses. 2-D design is a great introductory course designed for students with no previous background in art.

**2-D Design**  
149  
**1 Semester Course**  
9-12

**3-D Design**  
150  
**1 Semester Course**  
9-12

**Art History I & II**  
155  
10-12

**Visual Communications**  
183/184  
9-12

**Entertainment Design**  
I & II - 171  
III & IV - 177

**Media Arts**  
(Photography)  
I & II - 141/142  
III & IV - 143/144  
V & VI - 145/146

**Painting**  
I & II - 101/102  
III & IV - 103/104  
V & VI - 105/106  
VII & VIII - 107/108

**Ceramics**  
I & II - 109/110  
III & IV - 111/112  
V & VI - 113/114  
VII & VIII - 115/116

**Drawing**  
I & II - 117/118  
III & IV - 118/120  
V & VI - 121/122  
VII & VIII - 123/124

**Sculpture**  
I & II - 125/126  
III & IV - 127/128  
V & VI - 129/130  
VII & VIII - 131/132

**Graphic Design**  
I & II - 133/134  
III & IV - 135/136  
V & VI - 137/138  
VII & VIII - 139/140

**AP Art History**  
165

**Studio Art**  
Advanced 2D Art - 151  
Advanced 3D Art - 157  
AP Drawing - 153  
AP 2D Art & Design – Painting - 154  
AP 2D Art & Design – Photography - 173

**Portfolio Exit**  
Project  
0169  
(1Sem.)

**Printmaking**  
167  
(1Sem.)  
(2<sup>nd</sup>)

All classes must be taken in sequence. For example, Drawing 117/118 must be taken before Drawing 119/120. There are no prerequisites for any beginning level course and students may take more than one beginning level course at a time.

## **VISUAL ARTS**

***All visual art courses meet the Fine Arts requirement of the Core 40 Diploma with Academic Honors***

**Penn# 0149**

**INTRODUCTION TO TWO-DIMENSIONAL ART**

**Semesters: 1 Credit: 1**

**Grade Level: 9-12**

**Weight: 4.0 DOE# 4000**

**Course Description:**

Introduction to 2-Dimensional Art is a 1-semester course intended to provide students with the basic skills and techniques in drawing, painting, design and printmaking. The 2/D course will help students generate new ideas, develop artistic skills, and foster student imagination. Pencil, chalk, charcoal, colored pencil, marker, tempera, acrylics, oil pastels and scratchboard may be some of the materials students will explore. Our goal is one in which students gain an appreciation for the arts, and learn how the arts can be integrated into other areas of study.

**Penn# 0150**

**INTRODUCTION TO THREE-DIMENSIONAL ART**

**Semesters: 1 Credit: 1**

**Grade Level: 9-12**

**Weight: 4.0 DOE# 4002**

**Course Description:**

**Students who have previously received credit in ceramics or sculpture can not take this course.**

This course is not intended for students with previous credit in ceramics or sculpture. Introduction to 3-Dimensional Art is the next phase of the introductory course intended to

provide students with the basic skills and techniques in sculpture and ceramics. Clay, plaster, cardboard, textiles, and other 3-dimensional materials may be explored. Through these art experiences, young adult artists will find gratification in creating three-dimensional works of art. Our goal is one in which students gain an appreciation for the arts, and learn how the arts can be integrated into other areas of study.

**Penn# 0109/0110**

**CERAMICS I & II**

**Semesters: 2 Credits: 2**

**Grade Level: 9-12**

**Weight: 4.0 DOE# 4040**

**Course Description:**

This is a 2-semester course where you will learn to make your childhood mud pies into a creative and useful artwork. Your artwork will not only be a decorative piece of art, but you will be able to use it in your daily life or give it to someone as a gift of love. Students will explore coil, slab, pinch, drape and sculpture techniques to construct animal sculptures, bowls, boxes, masks, teapots, tiles and vessels that have a strong sense of color and texture designs.

**Penn# 0111/0112**

**CERAMICS III & IV**

**Semesters: 2 Credits: 2**

**Grade Level: 10-12**

**Prerequisite: Ceramics I-II**

**Weight: 4.0 DOE# 4040**

**Course Description:**

This course is a further study of clay, glazing, staining and design techniques. Wheel thrown pottery will be introduced. Independent studio practices emphasizing creativity and exploration into the realm of clay as pottery will be applied to non functional and functional ware.

**Penn# 0113/0114**

**CERAMICS V & VI**

**Semesters: 2 Credits: 2**

**Grade Level: 11-12**

**Prerequisite: Ceramics III-IV**

**Weight: 4.0 DOE# 4040**

**Course Description:**

This course is a continuing study and development of ceramic skills and techniques, emphasizing the development of individual style. Traditional and contemporary clay sculpture will be applied as students work on free form ceramics and the potter's wheel to create a series of nonfunctional and functional pottery.

**Penn# 0115/0116**

**CERAMICS VII & VIII**

**Semesters: 2 Credits: 2**

**Grade Level: 12**

**Prerequisite: Ceramics V-VI**

**Weight: 4.0 DOE# 4040**

**Course Description:**

Ceramic students participating in this class are urged to create high quality artwork to be put into their portfolio. This class is designed for a student who wants to research a variety of techniques beyond previous levels to develop a personal concentration in their own style of artwork.

**Penn# 0117/0118**

**DRAWING I & II**

**Semesters: 2 Credits: 2**

**Grade Level: 9-12**

**Weight: 4.0 DOE# 4060**

**Course Description:**

**Intro to 2-D or 3-D Art is recommended.** This course is an introduction to the basic skills and techniques of drawing and composition. Emphasis will be placed on the elements of structure: line, shape, form, space, value, texture, and color as well as principles of

arrangement. Students will explore various media such as pencil, charcoal, pastels, pen and ink, watercolor, marker, and printmaking techniques. Assignments may include: still life drawing, portraiture, perspective drawing, figure drawing, printmaking, scratchboard, graphic and abstract design. Students will be required to keep a sketchbook.

**Penn# 0119/0120**

**DRAWING III & IV**

**Semesters: 2 Credits: 2**

**Grade Level: 10-12**

**Prerequisite: Drawing I & II**

**Weight: 4.0 DOE# 4060**

**Course Description:**

This course is a further study of the elements and principles of drawing and design. Students will explore a wide range of techniques as it applies to the various media. Assignments may include: landscape, life drawing, architectural and fashion design, illustration printmaking techniques such as linoleum, intaglio and monoprints, and mixed media. Students will be required to keep a sketchbook quarterly and shoot 1 roll of film per semester for visual references.

**Penn# 0121/0122**

**DRAWING V & VI**

**Semesters: 2 Credits: 2**

**Grade Level: 11-12**

**Prerequisite: Drawing III & IV**

**Weight: 4.0 DOE# 4060**

**Course Description:**

This course is a continuing study of drawing and design techniques. Students that advance to this level have more project choices and are encouraged to develop a more personal style/focus. Students will be required to keep a sketchbook quarterly and shoot 1 roll of film per semester for visual references.

Assignments may include: landscape, life drawing, architectural and fashion design, illustration printmaking techniques such as linoleum, intaglio and monoprints, and mixed media. This course combines particularly well with AP Studio Art senior year.

**Penn# 0123/0124**

**DRAWING VII & VIII**

**Semesters: 2 Credits: 2**

**Grade Level: 12**

**Prerequisite: Drawing V & VI**

**Weight: 4.0 DOE# 4060**

**Course Description:**

This course is a continuing study of drawing and design techniques. Students that advance to this level have more project choices and are encouraged to develop a more personal style/focus. Students will be required to keep a sketchbook quarterly and shoot 1 roll of film per semester for visual references. Assignments may include: landscape, life drawing, architectural and fashion design, illustration printmaking techniques such as linoleum, intaglio and monoprints, and mixed media.

**Penn# 0183/0184**

**VISUAL COMMUNICATION**

**Semesters: 2 Credits: 2**

**Grade Level: 9-12**

**Weight: 4.0 DOE# 4086**

**Course Description:**

This class is to prepare students for the Entertainment Design and/or Graphic Design course trees offered here at Penn, covering the core the fundamentals in both. Each course tree will have its own semester's focus. Note-taking, problem-solving, time management, and critical thinking skills will be put to use. *Entertainment Design semester*. Students will learn the core fundamentals used by artists to create from the imagination alone.

This includes 2-point perspective, form building, and lighting volume. The majority of the semester will be traditional (on paper) and ending using Adobe Photoshop for digital painting. *Graphic Design semester*. Students will work traditionally (on paper), learning how to visually communicate with type, form language, silhouette and visual pun. Students will also learn the process designers use to solve design problems, how composition works, and basic color theory.

**Penn# 0133/0134**

**GRAPHIC DESIGN I & II**

**Semesters: 2 Credits: 2**

**Grade Level: 10-12**

**Prerequisite: Visual**

**Communication OR 2D portfolio review**

**Weight: 4.0 DOE# 4086**

**Course Description:**

Graphic Design is a commercial art field where visuals are used to solve "design problems" and to communicate to a mass audience. Thinking is made visual! Graphic designers create products for clients such as movie posters, currency, signage, business logos, web graphics, promotional materials, t-shirt designs, billboards, cereal boxes, DVD/CD cases, and anything else you see on a shelf! Students will operate in a professional studio setting with an emphasis on applying design theory, problem-solving, critical thinking, and marketing. Students will use hands-on drawing mediums and design on the computer with Adobe Photoshop/Illustrator!

**Penn# 0135/0136**

**GRAPHIC DESIGN III & IV**

**Semesters: 2 Credits: 2**

**Grade Level: 10-12**

**Prerequisite: Graphic Design I & II**

**Weight: 4.0 DOE# 4086**

**Course Description:**

Second year students will operate as a community workhorse designing real-world products for *real clients*. Client work includes in-house and community needs. Many projects are individual while others are class-wide and competitive. Students will work directly with clients demonstrating professionalism through: Face to face interviews, following client briefs, meeting and exceeding client needs, adjusting products based on client feedback, meeting deadlines, and applying training in a professional lab setting.

**Penn# 0137/0138**

**GRAPHIC DESIGN V & VI**

**Semesters: 2 Credits: 2**

**Grade Level: 11-12**

**Prerequisite: Graphic Design III & IV**

**Weight: 4.0 DOE# 4086**

**Course Description:**

Third year students will operate as a community workhorse designing real-world products for *real clients*. Client work includes in-house and community needs. Many projects are individual while others are class-wide and competitive. Students will work directly with clients demonstrating professionalism through: Face to face interviews, following client briefs, meeting and exceeding client needs, adjusting products based on client feedback, meeting deadlines, and applying training in a professional lab setting.

**Penn# 0139**

**GRAPHIC DESIGN INTERNSHIP**

**(WBL)**

**Semesters: 2 Credits: 2**

**Grade Level: 12**

**Prerequisites: Approval of Instructor**

**Weight: 4.0 DOE# 5974**

**Course Description:**

This internship course is intended for the serious-minded student who wishes to: (1) work on an independent basis in an attempt to build a college/institute portfolio, (2) contribute by becoming the creative director for our In-House Agency projects. This student will be the point person in charge of leading some of our advanced graphic design students as they work on community and non-for-profit projects. They will be instrumental in working with the instructor as they develop strong leadership skills. This course *may* be available for dual credit. As part of this Work-Based Learning experience, students will complete a number of components resulting in a portfolio.

**Penn# 0141/0142**

**PHOTOGRAPHY I & II**

**Semesters: 2 Credits: 2**

**Grade Level: 10-12**

**Weight: 4.0 DOE# 4062**

**Course Description:**

**Intro to 2-D or 3-D Art recommended. Student must have access to a 35mm SLR manual camera.** Students will explore the basic principles of black and white 35 mm photography. Shutter speed, aperture, depth of field, ASA/ISO film speed, lighting, processing and developing techniques will be taught. Emphasis will be placed on lighting, composition, subject matter, and dark room techniques. Other methods for making visual images will be explored such as pinhole photography, photograms, hand coloring, and toning. Students will

gain familiarity with the history of photography.

**Penn# 0143/0144**

**PHOTOGRAPHY III & IV**

**Semesters: 2 Credits: 2**

**Grade Level: 11-12**

**Prerequisite: Photography I & II**

**Weight: 4.0 DOE# 4062**

**Course Description:**

**Students must have access to a digital camera along with their 35mm manual camera.** Students will further explore black and white 35mm photography. Students will focus on building their skills using creative controls of aperture, shutter speed, film, and focusing. Emphasis will be placed on composition, lighting, subject matter, and darkroom techniques. Students will begin to explore digital photography.

**Penn# 0173**

**AP® 2D ART & DESIGN:**

**PHOTOGRAPHY**

**Semesters: 2 Credits: 2**

**Grade Level: 12**

**Prerequisite: Photography III & IV**

**Weight: 5.0 DOE# 4050**

**Course Description:**

Students will further explore the world of digital photography creating portfolio quality works and gaining essential photoshop skills. The Advanced Placement® (AP®) Studio Art program enables highly motivated students to do college-level work in studio art while still in high school. The program is intended to help students build a professional portfolio that can be submitted for entrance to an Art College, University, or Institute as well as scholarship opportunities.

Guidelines for Advanced Placement® Studio Art portfolios have been designed to accommodate a variety of interests and approaches to art. Students must submit 24 pieces that will be evaluated on the basis of quality (student's most successful works with respect to form and content,) concentration (sustained, deep, and multi-perspective investigation of a student-selected topic,) and breadth (a range of ideas and approaches to art-making.). Portfolios will be submitted for evaluation at the end of the semester to the AP® College Board. Automatic portfolio submission, however, does not guarantee college credit. This decision is determined by the individual school. It is highly recommended that you reference this link regarding the AP® Studio Art 2-D Design Portfolio:

[http://apcentral.collegeboard.com/ap\\_cmembers/exam/exam\\_information/2134.html](http://apcentral.collegeboard.com/ap_cmembers/exam/exam_information/2134.html)

**Penn# 0101/0102**

**PAINTING I & II**

**Semesters: 2 Credits: 2**

**Grade Level: 9-12**

**Weight: 4.0 DOE# 4064**

**Course Description:**

**Intro to 2-D or 3-D Art recommended.** This course is an introduction to the basic principles of painting. Students will have an opportunity to explore various techniques associated with watercolor, tempera, acrylics, and oil paints. Connections will be made between historically significant painters and periods of art. First year painting students will learn to merge the brush stroke with their imagination.

**Penn# 0103/0104**

**PAINTING III & IV**

**Semesters: 2 Credits: 2**

**Grade Level: 10-12**

**Prerequisite: Painting I & II**

**Weight: 4.0 DOE# 4064**

**Course Description:**

This course gives students the opportunity to expand upon the methods of painting learned in beginning painting. Students will experiment with new techniques and begin to develop a personal style.

**Penn# 0105/0106**

**PAINTING V & VI**

**Semesters: 2 Credits: 2 Grade**

**Level: 11-12**

**Prerequisite: Painting III & IV**

**Weight: 4.0 DOE# 4064**

**Course Description:**

This course is a continuing study of painting principles and techniques emphasizing the development of an individual style. Assignments will be open-ended and student driven, while attempting to create a personal portfolio.

**Penn# 0107/0108**

**PAINTING VII & VIII**

**Semesters: 2 Credits: 2 Grade**

**Level: 12**

**Prerequisite: Painting III & IV**

**Weight: 4.0 DOE# 4064**

**Course Description:**

This course is a continuing study of painting principles and techniques emphasizing the development of an individual style. Assignments will be open-ended and student driven, while attempting to create a personal portfolio.

**Penn# 0125/0126**

**SCULPTURE I & II**

**Semesters: 2 Credits: 2**

**Grade Level: 9-12**

**Weight: 4.0 DOE# 4044**

**Course Description:**

This course introduces the basic principles and techniques of sculpture using a variety of materials. Assignments will include sculptural techniques and methods of additive, subtractive, and constructive processes using such materials as clay, cardboard, paper, foam board, wire, plaster, found objects, paper mache', etc.

**Penn# 0127/0128**

**SCULPTURE III & IV**

**Semesters: 2 Credits: 2**

**Grade Level: 10-12**

**Prerequisite: Sculpture I & II**

**Weight: 4.0 DOE# 4044**

**Course Description:**

**Application, and 2nd semester enrollment required.** This course is a further study of sculpture with emphasis on the human form and the relationships of size, space and forms in the environment. Students carve a sculpture from soapstone. Other assignments may include: clay, plaster, cardboard, wood carving, paper mache' sculptures, constructism bust, and creating 3-Dimensional building, etc.

**Penn# 0129/0130**

**SCULPTURE V & VI**

**Semesters: 2 Credits: 2**

**Grade Level: 11-12**

**Prerequisite: Sculpture III & IV**

**Weight: 4.0 DOE# 4044**

**Course Description:**

**Application, and 2nd semester enrollment required.** This course is a continuing study of sculptural principles and techniques emphasizing the development of an individual style. Student assignments may include: realistic clay bust, alabaster sculpture, wax sculpture, found objects in metal, plaster, and casting of the human form, wood carving, glass creations etc...

**Penn# 0131/0132****SCULPTURE VII & VIII****Semesters: 2 Credits: 2****Grade Level: 12****Prerequisite: Sculpture V & VI****Weight: 4.0 DOE# 4044****Course Description:****Application, and 2nd semester enrollment required.**

This course is an advanced study of sculpture principles and techniques emphasizing advanced materials, tools, and sculpting methods.

**Penn# 0155/0156****ART HISTORY & ADVANCED ART****HISTORY****Semesters: 2 Credits: 2****Grade Level: 10-12****Prerequisite: Intro to 2-D or 3-D****Art recommended.****Weight: 4.0 DOE# 4024 & 4020****Course Description:**

Through lectures, slide presentations, videos, guest speakers, and special art projects, art history students will develop an appreciation for art history and cultures. Students will classify major styles of art and artists, and develop a foundation for understanding the historical progression of art. In addition, students will search for meaning and significance in art history by exploring studio techniques and processes related to historical periods.

**Penn# 0165****AP® ART HISTORY****Semesters: 2 Credits: 2****Grade Level: 11-12****Weight: 5.0 DOE# 4025**

**This course is weighted on a 5.0 scale.**

**Course Description:**

In this course, students examine and critically analyze major forms of artistic

expression from the past and the present from a variety of cultures. While visual analysis is a fundamental tool of the art historian, art history emphasizes understanding how and why works of art function in context, considering such issues as patronage, gender, and the function and effects of works of art.

**Penn# 0167****PRINTMAKING****Semesters: 1 Credits: 1****Grade Level: 10-12****Prerequisites: Drawing I & II OR****Graphic Design I & II OR****Introduction to 2D & 3D Art****Weight: 4.0 DOE# 4066****Course Description:**

This is a one semester class designed for students that want to explore a variety of art techniques that can be expressed through printmaking. Some background in drawing and experience in development of drawing skills and the understanding of the elements and principles and what make a good composition will prove to be most helpful in making effective printmaking projects. The most important factors are willingness to draw, experiment, try, and meet goals. Many different types of printmaking will be explored. Some of these may include: rubbings, eraser block, stencils, glue prints, various types of linoleum blocks, etching, mono-prints and mono-types.

**Penn# 0151/0152****ADVANCED TWO-DIMENSIONAL****ART****Semesters: 2 Credits: 2****Grade Level: 11****Weight: 4.0 DOE# 4004****Course Description:**

Drawing, Painting, Computer Illustration & Graphics.

<http://apcentral.collegeboard.com/ap/c/members/exam> This course is open

to Juniors as a prerequisite to the AP® Senior Studio. Juniors will not submit their portfolio until their senior year. Students will create a portfolio in drawing, painting, computer, or graphic design that can be partially used senior year. The submission fee is waived. This program is intended for students seriously committed to studying art in drawing, painting, computer, and graphic design. Students participating in the program should strive to produce high quality artwork, and their submitted portfolios should reflect this effort. The guidelines for Advanced Placement® Studio Art portfolios have been designed to accommodate a variety of interests and approaches to art and design. There are three required sections to the portfolio: quality (student's most successful works with respect to form and content,) concentration (sustained, deep, and multi-perspective investigation of a student-selected topic,) and breadth (a range of ideas and approaches to art-making.) This course is a great opportunity to apply for art scholarships and prepare for senior year and a future in the fine arts field. \*There is no AP® credit until senior year. It is highly recommended that you reference this link regarding the AP® Studio Art 2-D Design Portfolio:[exam information/2134.htm](http://exam-information/2134.htm)

**Penn# 0153****AP® DRAWING****Semesters: 2 Credits: 2****Grade Level: 12****Prerequisites: Advanced****Two-Dimensional Art OR Drawing V & VI****Weight: 5.0 DOE# 4048****Course Description:**

The Advanced Placement® (AP®) Studio Art program enables highly

motivated students to do college-level work in studio art while still in high school. The program is intended to help students build a professional portfolio that can be submitted for entrance to an Art College, University, or Institute as well as scholarship opportunities. Guidelines for Advanced Placement® Studio Art portfolios have been designed to accommodate a variety of interests and approaches to art. Students must submit 24 pieces that will be evaluated on the basis of quality (student's most successful works with respect to form and content,) concentration (sustained, deep, and multi-perspective investigation of a student-selected topic,) and breadth (a range of ideas and approaches to art-making.). Portfolios will be submitted for evaluation at the end of the semester to the AP® College Board. Automatic portfolio submission, however, does not guarantee college credit. This decision is determined by the individual school. It is highly recommended that you reference this link regarding the AP® Studio Art 2-D Design Portfolio:

[http://apcentral.collegeboard.com/ap\\_c/members/exam/exam\\_information/2134.html](http://apcentral.collegeboard.com/ap_c/members/exam/exam_information/2134.html)

motivated students to do college-level work in studio art while still in high school. The program is intended to help students build a professional portfolio that can be submitted for entrance to an Art College, University, or Institute as well as scholarship opportunities. Guidelines for Advanced Placement® Studio Art portfolios have been designed to accommodate a variety of interests and approaches to art. Students must submit 24 pieces that will be evaluated on the basis of quality (student's most successful works with respect to form and content,) concentration (sustained, deep, and multi-perspective investigation of a student-selected topic,) and breadth (a range of ideas and approaches to art-making.). Portfolios will be submitted for evaluation at the end of the semester to the AP® College Board. Automatic portfolio submission, however, does not guarantee college credit. This decision is determined by the individual school. It is highly recommended that you reference this link regarding the AP® Studio Art 2-D Design Portfolio:

[http://apcentral.collegeboard.com/ap\\_c/members/exam/exam\\_information/2134.html](http://apcentral.collegeboard.com/ap_c/members/exam/exam_information/2134.html)

**Ceramics or Sculpture.** This course is open to Juniors as a prerequisite to the AP® Senior Studio Sculpture/Ceramics. *Juniors will not submit their portfolio until senior year.* Students will create part of their portfolio that can be partially used their senior year. The submission fee is waived. This program is intended for students seriously committed to studying art in sculpture or ceramics. Students participating in the program should strive to produce high quality artwork, and their portfolios should reflect this effort. The guidelines for Advanced Placement® Studio Art portfolios have been designed to accommodate a variety of interests and approaches to art and design. There are three required sections to the portfolio: quality (student's most successful works with respect to form and content,) concentration (sustained, deep, and multi-perspective investigation of a student-selected topic,) and breadth (a range of ideas and approaches to art-making.) This course is a great opportunity to apply for art scholarships and prepare for senior year and a future in the fine arts field. *\*There is no AP® credit until senior year.* It is highly recommended that you reference this link regarding the AP® Studio Art 3-D Design Portfolio:

[http://apcentral.collegeboard.com/ap\\_c/members/exam/exam\\_information/2135.html](http://apcentral.collegeboard.com/ap_c/members/exam/exam_information/2135.html)

**Penn# 0154**

**AP® 2D ART & DESIGN: PAINTING**

**Semesters: 2 Credits: 2**

**Grade Level: 12**

**Prerequisites: Advanced**

**Two-Dimensional Art OR Painting V & VI**

**Weight: 5.0 DOE# 4050**

**Course Description:**

The Advanced Placement® (AP®) Studio Art program enables highly

**Penn# 0157/0158**

**ADVANCED THREE-DIMENSIONAL ART**

**Semesters: 2 Credits: 2**

**Grade Level: 11-12**

**Prerequisites: 2 years of ceramics OR sculpture, OR approval of instructor**

**Weight: 4.0 DOE# 4006**

**Course Description:**

**Penn# 0175**

**AP® 3D ART & DESIGN**

**Semesters: 2 Credits: 2**

**Grade Level: 12**

**Prerequisites: Advanced Three-Dimensional Art**

**Weight: 5.0 DOE# 4052**

**Course Description:**

**Ceramics or Sculpture.** The Advanced Placement® (AP®) Studio Art program enables highly motivated students to do college-level work in studio art while still in high school. Candidates of AP® Studio Art – Senior Year will submit a portfolio of work for evaluation at the end of the semester in either 3-D Design Portfolio, Sculpture or Ceramics. The program is intended for students seriously committed to building a professional portfolio that will gain them entrance, with possible scholarship, to an Art College, University, or Institute. Students participating in the program will strive to produce high quality artwork, and their submitted portfolios should reflect this effort. The guidelines for Advanced Placement® Studio Art portfolios have been designed to accommodate a variety of interests and approaches to art. There are three required sections to the portfolio: quality (student's most successful works with respect to form and content,) concentration (sustained, deep, and multi-perspective investigation of a student-selected topic,) and breadth (a range of ideas and approaches to art-making.) Portfolios will be submitted for evaluation at the end of the semester to the AP® College Board. Automatic portfolio submission, however, does not guarantee college credit. This decision is determined by the individual school. It is highly recommended that you reference this link regarding the AP® Studio Art 3-D Design Portfolio: [http://apcentral.collegeboard.com/apc/members/exam/exam\\_information/2135.html](http://apcentral.collegeboard.com/apc/members/exam/exam_information/2135.html)

**Penn# 0171/0172**  
**ENTERTAINMENT DESIGN I & II**  
**Semesters: 2 Credits: 2**  
**Grade Level: 10-12**

**Prerequisite: Visual Communication OR 2D portfolio review**

**Weight: 4.0 DOE# 4082**

**Course Description:**

With the intro class under your belt you are now ready! Entertainment Design I covers content reserved mainly for trade schools and colleges and is unofficially classified as *intensive*, like an AP® course. You'll begin solving design problems like a concept artist/engineer! We will be designing creatures, environments, props, and characters all digitally in Adobe Photoshop using digital painting. As a designer you'll learn the process of visual research, how to incorporate biology/anatomy for original creature design, the ideation process of exploring solutions to solving design problems, designing with form language and silhouette and working with an efficient workflow. All projects are simulated as if from a client and your job is to deliver what the client wants within a deadline. Students will use also learn advanced rendering skills such as sub-surface scattering, ambient occlusion, and hard/soft surface material rendering.

**Penn# 0177/0178**

**ENTERTAINMENT DESIGN III & IV**

**Semesters: 2 Credits: 2**

**Grade Level: 11-12**

**Prerequisite: Entertainment Design I & II**

**Weight: 4.0 DOE# 4082**

**Course Description:**

This class expands upon the skill set learned during Year 1, focusing more on Design. A variety of additional digital methods and creative methods will be explored under the theme of "World Building." Linear perspective will expand to cut-away set design. Environment designs will include

time/seasonal variations. Form building will expand to material re-skin and anatomical functionality studies. Vehicle/mecha designs will attempt to solve real-world problems. Second semester will finally summarize everything you've learned in the form of a full re-design of an existing novel or short story. Students will have amassed a strong portfolio of college-grade work and will have the introductory training necessary for transition into art/trade schools supporting the entertainment industry.

**Penn# 0179/0180**

**ENTERTAINMENT DESIGN V & VI**

**Semesters: 2 Credits: 2**

**Grade Level: 11-12**

**Prerequisite: Entertainment Design I & II**

**Weight: 4.0 DOE# 4082**

**Course Description:**

This class expands upon the skill set learned during Year 1, focusing more on Design. A variety of additional digital methods and creative methods will be explored under the theme of "World Building." Linear perspective will expand to cut-away set design.

Environment designs will include time/seasonal variations. Form building will expand to material re-skin and anatomical functionality studies.

Vehicle/mecha designs will attempt to solve real-world problems. Second semester will finally summarize everything you've learned in the form of a full re-design of an existing novel or short story. Students will have amassed a strong portfolio of college-grade work and will have the introductory training necessary for transition into art/trade schools supporting the entertainment industry.

**Penn# 0169**

## **PORFOLIO EXIT PROJECT**

**Semesters: 1 Credits: 1**

**Grade Level: 11-12**

**Prerequisite: Teacher Approval**

**Weight: 4.0 DOE# 4004**

### **Course Description:**

Junior or Senior art students who wish to pursue visual art as a career choice in college, are encouraged to enroll in, "Portfolio Exit Project." Topics covered in this course will include: artist statement, written and creatively produced resume', matted and digitally produced student portfolio of work. All Art Studio majors will present professionally prepared portfolios for review by a committee of art professionals including local artists, college faculty, and local art businesses. Completed portfolios will then be sent to the student's college/institute of choice, as they compete for admittance and scholarship.

## **Penn# 0800**

### **FINE ARTS CONNECTIONS**

#### **CAPSTONE**

**Semesters: 2 Credits: 2**

**Grade Level: 12**

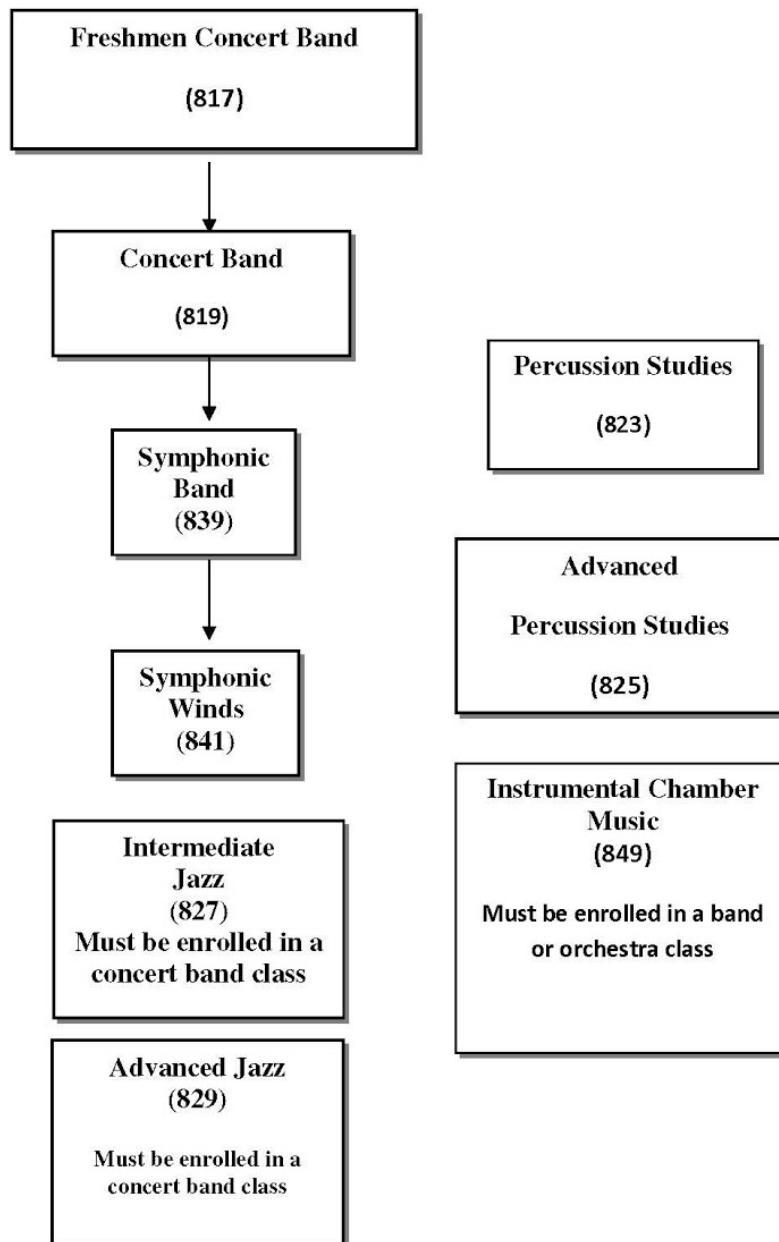
**Weight: 4.0 DOE# 4026**

### **Course Description:**

This course is for the senior Fine Arts & Communications Academy member who wishes to complete an academy capstone project. A capstone project will focus on the student's interest and/or college and career goals. The Capstone project or recital will be designed by the student and instructor. The instructor will serve as a mentor, guiding the student through the design, planning, execution and evaluation of a relevant capstone project.

## **Band Course**

### **Sequence**



## **BAND**

**All band courses meet the Fine Arts requirement of the Core 40 Diploma with Academic Honors. Attendance at concert performances is required.**

**Penn# 0817**

**INTERMEDIATE CONCERT BAND**

**Semesters: 2 Credits: 2 Grade Level: 9**

**Prerequisite: Successful completion of middle school band**

**Weight: 4.0 DOE# 4168**

**Course Description:**

**Freshman Concert Band.** This developmental course is open to all freshmen students who play a band instrument at an intermediate level. Emphasis is placed on tone, technique development and sight reading. Participation in the ISSMA Solo/Ensemble contest is encouraged. Interested students may audition (in January) for the marching band. The band performs several times during the year.

**Penn# 0819**

**INTERMEDIATE CONCERT BAND**

**Semesters: 2 Credits: 2 Grade Level: 10-12**

**Prerequisite: Any PHM band course**

**Weight: 4.0 DOE# 4168**

**Course Description:**

**Concert Band.** This concert band class is open to all Penn students who play a band instrument at an intermediate proficiency or better. Emphasis is placed on tone, technique development and sight reading. Participation in the ISSMA Solo/Ensemble contest is encouraged. Interested students may audition (in January) for the marching band. The

band performs several times during the year.

**Penn# 0839**

**ADVANCED CONCERT BAND**

**Semesters: 2 Credits: 2 Grade Level: 10-12**

**Prerequisite: Audition**

**Weight: 4.0 DOE# 4170**

**Course Description:**

**Symphonic Band.** This advanced concert band class is available by audition to Penn students who play a band instrument at an upper intermediate to advanced level. Emphasis is placed on tone, technique development and sightreading. Advanced performance techniques are emphasized. Participation in the ISSMA Solo/Ensemble contest is encouraged. Serious band literature is selected from a variety of periods in music history. Private lessons are highly encouraged.

**Penn# 0841**

**ADVANCED CONCERT BAND**

**Semesters: 2 Credits: 2 Grade Level: 10-12**

**Prerequisite: Audition**

**Weight: 4.5 DOE# 4170**

**Course Description:**

**Symphonic Winds.** This advanced band is considered the top concert band at Penn High School. The band represents Penn High School in public performances and competitions. Advanced performance techniques are emphasized. Serious band literature is selected from a variety of periods of music history. Private lessons are required. All State Band participation is highly encouraged. This ensemble typically performs more concerts than other Penn Concert Bands.

**Penn# 0823**

**PERCUSSION STUDIES**

**Semesters: 2 Credits: 2 Grade**

**Level: 9-12**

**Prerequisite: Successful completion of three years in Middle School band as a percussionist or currently enrolled in Percussion Studies**

**Weight: 4.0 DOE# 4162**

**Course Description:**

The Intermediate Percussion Studies class is comprised of students who have completed three years of middle school band as a percussionist or have successfully completed previous years of percussion studies. Students meet as a separate class to learn percussion techniques and reading skills for a wide variety of percussion instruments and literature. All students will perform with one of three concert bands (817, 819 or 839) for all concerts and contests. There will be 4-5 required performances throughout the year.

**Penn# 0825**

**ADVANCED PERCUSSION STUDIES**

**Semesters: 2 Credits: 2 Grade**

**Level: 9-12**

**Prerequisite: Audition**

**Weight: 4.0 DOE# 4162**

**Course Description:**

The Advanced Percussion Studies class is comprised of students who have completed three years of middle school band as a percussionist or have successfully completed previous years of Intermediate Percussion Studies or Advanced Percussion Studies. Students meet as a separate class to learn percussion techniques and reading skills for a wide variety of percussion instruments and advanced literature. All students will perform with one of two concert bands (839 or 841) for all concerts and contests. There will

be several required performances throughout the year. Private lessons are required.

**Penn# 0827**

**INTERMEDIATE JAZZ ENSEMBLE**

**Semesters: 2 Credits: 2 Grade**

**Level: 9-12**

**Prerequisites: Must be enrolled in Symphonic or Concert Band and permission of instructor**

**Weight: 4.0 DOE# 4164**

**Course Description:**

Wind players must be in a concert band class; bassists must be in an orchestra class; percussionists must be in a percussion class

This course is available to students also enrolled in a concert band class. Pianists and guitarists may audition into the ensemble without participation in a concert band. Bassists should be enrolled in an orchestra class. Emphasis is placed on technical development and sight-reading skills. Jazz theory and improvisation are included in the course of study. The group performs several times each year. Students with previous instrumental study may enroll.

**Penn# 0829**

**ADVANCED JAZZ ENSEMBLE**

**Semesters: 2 Credits: 2 Grade**

**Level: 10-12**

**Prerequisites: Must be enrolled in Symphonic or Concert Band and audition**

**Weight: 4.5 DOE# 4164**

**Course Description:**

Wind players must be in a concert band class; bassists must be in an orchestra class; percussionists must be in a percussion class

This course is available by audition to students also enrolled in a concert band class. Pianists and guitarists may audition into the ensemble without

participation in a concert band. Bassists should be enrolled in an orchestra class. Emphasis is placed on technical development and sight-reading skills. Jazz theory and improvisation are included in the course of study. The group performs several times each year. Students with previous instrumental study may enroll.

successful performances. Private lessons are strongly encouraged for successful participation in this ensemble. This course is designed to offer advanced instrumental performers an opportunity to study and perform chamber music literature. String Quartet, wind/string combinations, and other chamber literature will be studied, arranged, rehearsed, and performed. These groups could perform many times per year at various places in the community.

**Penn# 0849**

**INSTRUMENTAL CHAMBER MUSIC**

**Semesters: 2 Credits: 2 Grade**

**Level: 10-12**

**Prerequisite: Audition**

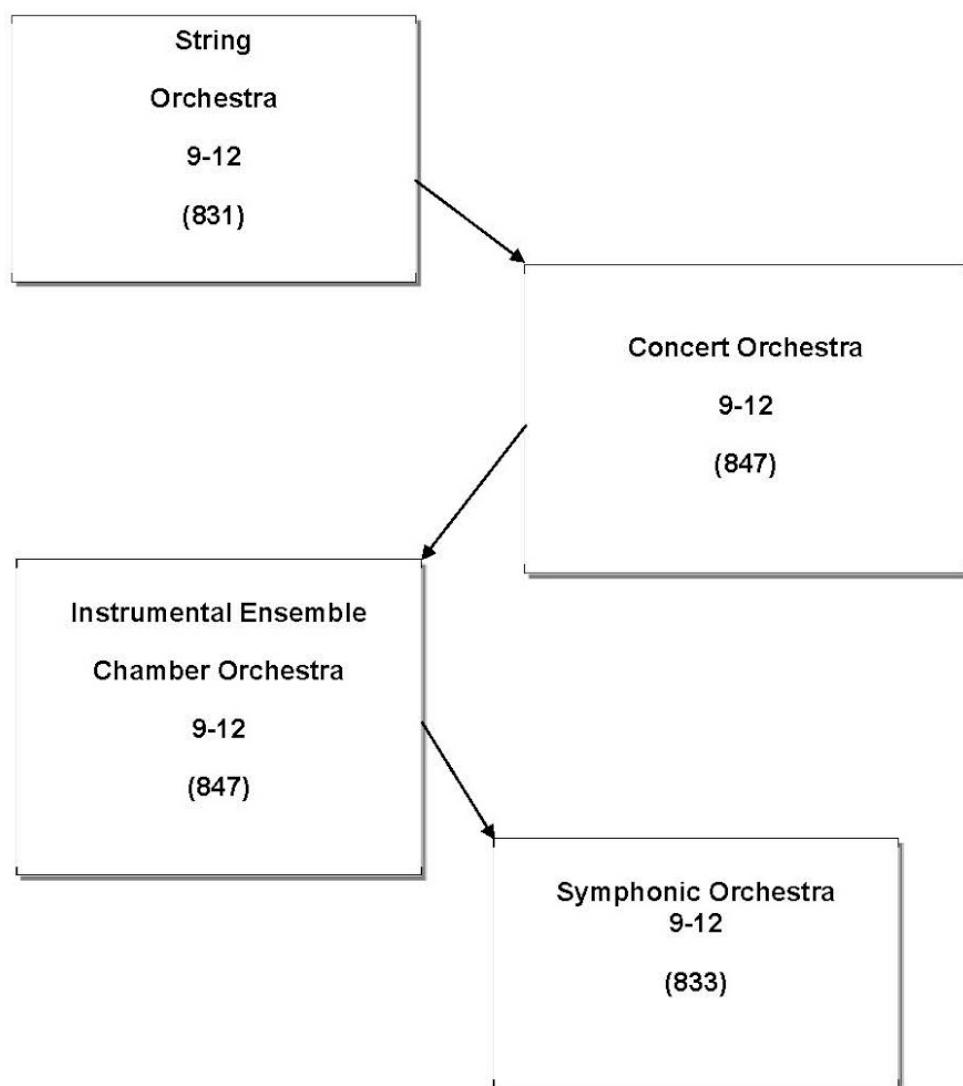
**Weight: 4.0 DOE# 4162**

**Course Description:**

Emphasis is placed on tone, instrument and bow technique development, sight-reading, and advanced performance techniques. Participation in ISSMA Solo & Ensemble contest is highly encouraged as these activities develop elements of musicianship. Serious string and full orchestra literature is selected from a variety of periods in music history. Students will have opportunities to experience live performances by professional musicians during and outside of the school day. A limited number of public performances may serve as a culmination of daily rehearsal and musical goals. Students will participate in performance opportunities outside of the school day that support and extend learning in the classroom. Students must perform with expression and technical accuracy on a large and varied repertoire of orchestral literature that is developmentally appropriate. Evaluations of music and music performances are included. Students are required to attend regularly scheduled evening rehearsals, as well as extra rehearsals, which are designed to insure musically

## **Orchestra**

### **Sequence**



## ORCHESTRA

*All orchestra courses meet the Fine Arts requirement of the Core 40 Diploma with Academic Honors. Attendance at concert performances is required.*

**Penn# 0831**

**STRING ORCHESTRA**

**Semesters: 2 Credits: 2 Grade**

**Level: 9-12**

**Prerequisite: Successful completion of middle school orchestra**

**Weight: 4.0 DOE# 4172**

**Course Description:**

String Orchestra is for students who play a string instrument at an intermediate level. Emphasis is placed on tone, technique development and sight- reading. Participation in ISSMA Solo/Ensemble contest is highly encouraged as these activities develop elements of musicianship. Music is selected from classical, popular, folk, and new string literature. Private lessons are highly encouraged. A limited number of public performances serve as a culmination of daily rehearsal and musical goals. Students must participate in performance opportunities outside of the school day; these support and extend learning in the classroom. Students must perform, with expression and technical accuracy, a large and varied repertoire of orchestral literature that is developmentally appropriate. Evaluations of music and music performances are included.

**Penn# 0847**

**CONCERT ORCHESTRA**

**Semesters: 2 Credits: 2 Grade**

**Level: 9-12**

**Prerequisite: Audition**

**Weight: 4.0 DOE# 4172**

**Course Description:**

Concert Orchestra is for Penn students who play a string instrument at an intermediate proficiency or better. Emphasis is placed on tone, technique development and sight- reading. Participation in ISSMA Solo/Ensemble contest is highly encouraged as these activities develop elements of musicianship. Music is selected from classical, popular, folk, and new string literature. Private lessons are highly encouraged. A limited number of public performances serve as a culmination of daily rehearsal and musical goals. Students must participate in performance opportunities outside of the school day; these support and extend learning in the classroom. Students must perform, with expression and technical accuracy, a large and varied repertoire of orchestral literature that is developmentally appropriate. Evaluations of music and music performances are included.

**Penn# 0857**

**CHAMBER ORCHESTRA**

**Semesters: 2 Credits: 2 Grade**

**Level: 10-12**

**Prerequisite: Audition**

**Weight: 4.0 DOE# 4162**

**Course Description:**

**Chamber Orchestra.** This orchestra performs a wide variety of string classical, popular, and small ensemble chamber music. Emphasis is placed on developing advanced skills and musicianship. Members are chosen by audition, and are encouraged to participate in the ISSMA Solo & Ensemble Contest, ASTA All-State Orchestra, private lessons and the South Bend Youth Symphony. Select members of this ensemble will be invited to join the Full Orchestra for its Spring Concert Cycle, which would include Monday Night Rehearsals from February through April.

**Penn# 0833**

**SYMPHONIC ORCHESTRA**

**Semesters: 2 Credits: 2 Grade**

**Level: 9-12**

**Prerequisite: Audition**

**Weight: 4.5 DOE# 4174**

**Course Description:**

This advanced orchestra class is available by audition to string musicians at an upper intermediate to advanced level. Emphasis is placed on tone, instrument and bow technique development, sight-reading, and advanced performance techniques. Participation in ISSMA Solo & Ensemble contest is highly encouraged as these activities develop elements of musicianship. Serious string and full orchestra literature is selected from a variety of periods in music history. Students will have opportunities to experience live performances by professional musicians during and outside of the school day. A limited number of public performances may serve as a culmination of daily rehearsal and musical goals. Students will participate in performance opportunities outside of the school day that support and extend learning in the classroom. Students must perform with expression and technical accuracy on a large and varied repertoire of orchestral literature that is developmentally appropriate. Evaluations of music and music performances are included. The Symphonic Orchestra will participate in Concert Tours, Festivals, and the ISSMA State and District Contests. Students are required to attend regularly scheduled evening rehearsals, as well as extra rehearsals, which are designed to insure musically successful performances. Private lessons are strongly encouraged for successful participation in this ensemble.

## **Elective Music**

**Music Theory and Composition I & II**  
(10-11-12)  
(815)

**Music Theory and Composition III**  
(10-12)  
(821)

**Music Technology I & II**  
(10-11-12)  
(843/844)  
(use 843 to schedule)

**AP Music Theory I & II**  
(11-12)  
(845)

## **ELECTIVE MUSIC**

***All elective music courses meet the Fine Arts requirement of the Core 40 Diploma with Academic Honors***

**Penn# 0843/0844**  
**MUSIC TECHNOLOGY I & II**

**Semesters: 2 Credits: 2 Grade**  
**Level: 10-12**

**Weight: 4.0 DOE# 4202**

**Course Description:**

**Piano keyboard experience is helpful, but not necessary.** This course will take an in-depth look at the growth of the synthesizer and other electronic instruments that have so greatly changed our contemporary music. Students will study the development of sound reinforcement and electronic music, and gain experience in MIDI, programming, sequencing, and audio recording. Computer technology will be recognized as the fast changing foundation of recording arts.

**Penn# 0815**  
**MUSIC THEORY AND COMPOSITION**

**Semesters: 2 Credits: 2 Grade**  
**Level: 10-12**

**Prerequisite: Basic music reading and notation skill.**

**Weight: 4.0 DOE# 4208**

**Course Description:**

This course is a study of the elements in music including aural and visual concepts in notation. Students study the structure of music and the underlying elements of how music works. All this information is applied through music composition or writing. Computers and software are utilized in this classroom.

**Penn# 0845**

**AP® MUSIC THEORY**

**Semesters: 2 Credits: 2 Grade**  
**Level: 10-12**

**Prerequisite: Music Theory I & II or pass the Final Exam for Music**

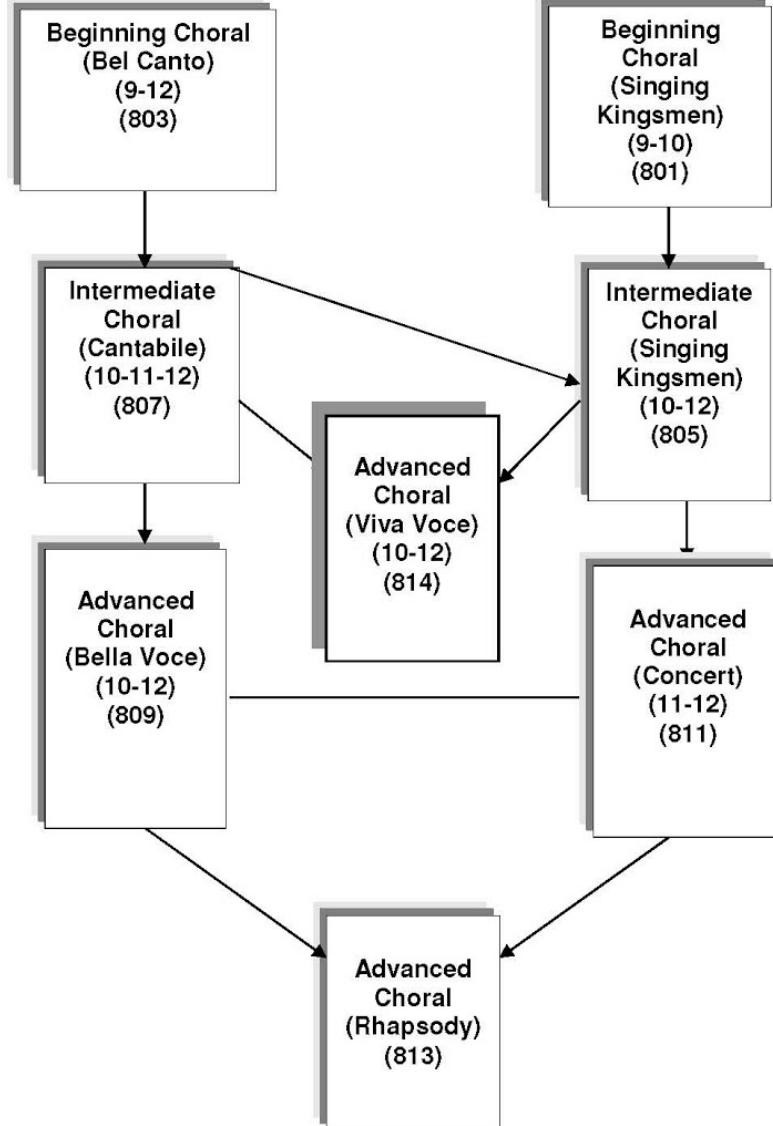
**Theory I & II**

**Weight: 5.0 DOE# 4210**

**Course Description:**

Advanced Placement® Music Theory is designed for the able and ambitious high school student who is committed to the close study of music structure and who has the desire and determination to gain college credit or Advanced Placement® in music while still in high school. To qualify to enroll to AP® Music Theory, the student must successfully complete Music Theory I (course numbers 815 & 816), or possess a solid background in the skill areas of rhythm and notation reading (bass clef and treble clef) as well as scales and major key signatures. The focus of study is centered on techniques for aural and written analysis of music literature. All students enrolled in the course will take the Advanced Placement® Music Theory exam in the spring.

## Choral Music



## **CHORAL MUSIC**

***All choral music courses meet the Fine Arts requirement of the Core 40 Diploma with Academic Honors***  
***Attendance at concert performances is required.***

**Penn# 0801**

### **BEGINNING CHORAL**

**Semesters: 2 Credits: 2 Grade**

**Level: 9-12**

**Weight: 4.0 DOE# 4182**

#### **Course Description:**

**Singing Kingsmen.** This boy's course is designed to introduce and develop basic singing techniques, sight-reading skills and basic music theory concepts. Activities in this class create the development of quality repertoire in the diverse styles of choral literature appropriate in difficulty and range for the students. Students develop the ability to understand and convey the composer's intent in order to connect the performer with the audience. Students must participate in performance opportunities outside of the school day that support and extend learning in the classroom. No audition is required.

**Penn# 0803**

### **BEGINNING CHORAL**

**Semesters: 2 Credits: 2 Grade**

**Level: 9-12**

**Weight: 4.0 DOE# 4182**

#### **Course Description:**

**Bel Canto Chorus.** This course is designed to introduce and develop basic singing techniques, sight-reading skills and basic music theory concepts. Activities in this class create the development of quality repertoire in the

diverse styles of choral literature appropriate in difficulty and range for the students. Students develop the ability to understand and convey the composer's intent in order to connect the performer with the audience. Students must participate in performance opportunities outside of the school day that support and extend learning in the classroom. No audition is required.

**Penn# 0805**

### **INTERMEDIATE CHORAL**

**Semesters: 2 Credits: 2 Grade**

**Level: 10-12**

**Prerequisite: Beginning Chorus- Singing Kingsmen or permission of instructor**

**Weight: 4.0 DOE# 4186**

#### **Course Description:**

**Singing Kingsmen.** This intermediate men's choir is designed to develop intermediate level singing techniques, sight-reading skills and music theory concepts. Activities in this class create the development of quality repertoire in the diverse styles of choral literature appropriate in difficulty and range for the students. Students develop the ability to understand and convey the composer's intent in order to connect the performer with the audience. Students must participate in performance opportunities outside of the school day that support and extend learning in the classroom. No audition is required. Student must supply own performance shirt and shoes.

**Penn# 0807**

### **INTERMEDIATE CHORAL**

**Semesters: 2 Credits: 2 Grade**

**Level: 10-12**

**Prerequisite: Beginning Chorus or permission of instructor**

**Weight: 4.0 DOE# 4186**

#### **Course Description:**

**Cantabile Chorus.** This intermediate choir is designed to develop intermediate level singing techniques, sight-reading skills and music theory concepts. Activities in this class create the development of quality repertoire in the diverse styles of choral literature appropriate in difficulty and range for the students. Students develop the ability to understand and convey the composer's intent in order to connect the performer with the audience. Students must participate in performance opportunities outside of the school day that support and extend learning in the classroom. No audition is required.

**Penn# 0809**

### **ADVANCED CHORAL**

**Semesters: 2 Credits: 2 Grade**

**Level: 10-12**

**Prerequisite: Audition**

**Weight: 4.5 DOE# 4188**

#### **Course Description:**

**Bella Voce.** This advanced choir studies advanced level singing techniques, sight-reading skills and music theory concepts. Activities in this class create the development of quality repertoire in the diverse styles of choral literature appropriate in difficulty and range for the students. Students develop the ability to understand and convey the composer's intent in order to connect the performer with the audience. Students must participate in performance opportunities outside of the school day that support and extend learning in the classroom. \*Students meet as a class on alternate study hall periods.

**Penn# 0811**  
**ADVANCED CHORAL**  
**Semesters: 2 Credits: 2 Grade**  
**Level: 11-12**  
**Prerequisite: Audition**  
**Weight: 4.5 DOE# 4188**

**Course Description:**  
**Concert Choir.** This advanced mixed choir studies advanced singing techniques, sight-reading skills and music theory concepts. Activities in this class create the development of quality repertoire in the diverse styles of choral literature appropriate in difficulty and range for the students. Students develop the ability to understand and convey the composer's intent in order to connect the performer with the audience. Students must participate in performance opportunities outside of the school day that support and extend learning in the classroom. \*Students meet as a class on alternate study hall periods.

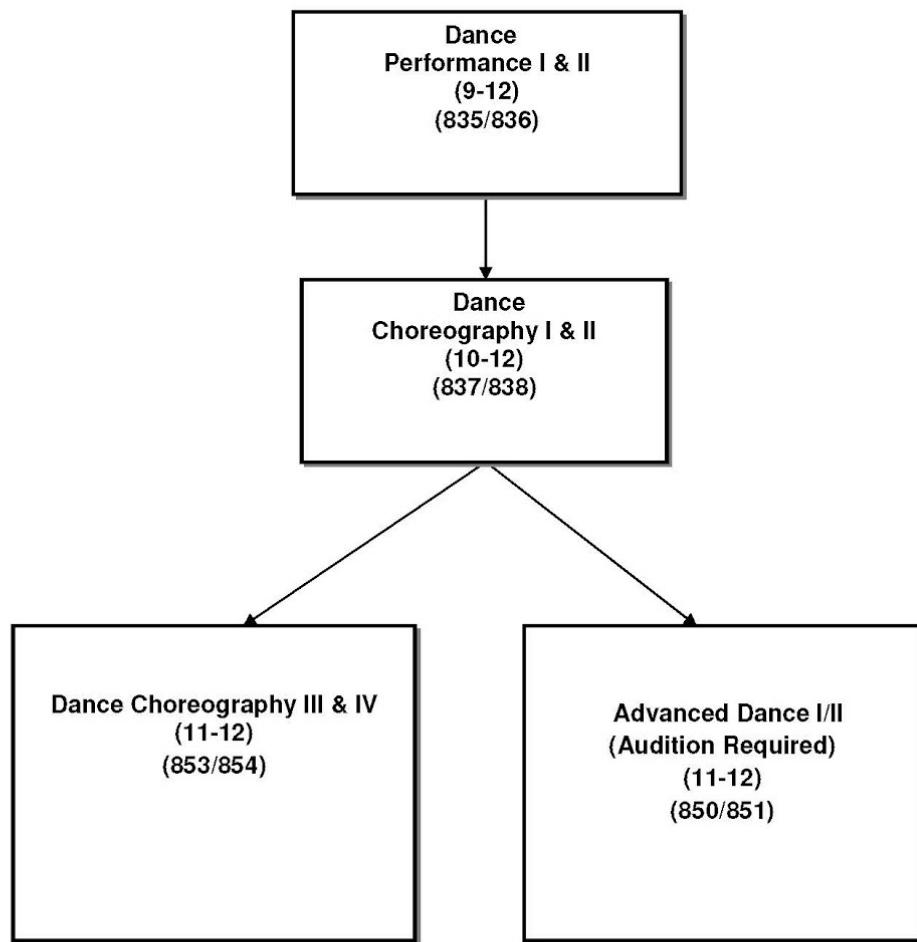
**Penn# 0813**  
**ADVANCED CHORAL**  
**Semesters: 2 Credits: 2 Grade**  
**Level: 10-12**  
**Prerequisite: Audition AND enrollment in Bella Voce or Concert Choir**  
**Weight: 4.0 DOE# 4180**

**Course Description:**  
**Rhapsody.** This group of advanced singers performs show, folk and swing music. The group is available for civic and community functions and makes numerous appearances during the year. Students develop the ability to understand and convey the composer's intent in order to connect the performer with the audience. Students must participate in performance opportunities outside of the school day that support and extend learning in the classroom.

**Penn# 0814**  
**ADVANCED CHORAL**  
**Semesters: 2 Credits: 2 Grade**  
**Level: 10-12**  
**Prerequisites: Audition AND enrollment in Singing Kingsmen, Bel Canto Chorus, Cantabile, or Bella Voce**  
**Weight: 4.0 DOE# 4180**

**Course Description:**  
**VIVA VOCE.** This advanced-level choir is a group of 24-36 auditioned singers that also must be enrolled in Concert Choir and/or Women's Chorale. This choir specializes in early/Renaissance music and contemporary music of living composers. Each year, this choir will commission music from composers to write music specifically for this ensemble. Music literacy skills, including sight-singing and rhythmic reading, will be taught alongside music repertoire.

# **DANCE**



## **DANCE**

***All dance courses meet the Fine Arts requirement of the Core 40 Diploma with Academic Honors.***

***Attendance at concert performances is required.***

***Penn# 0835/0836***

***DANCE PERFORMANCE I & II***

***Semesters: 2 Credits: 2 Grade***

***Level: 9-12***

***Weight: 4.0 DOE# 4146***

***Course Description:***

This course is designed to introduce and develop understanding of dance concepts and terminology, and to develop beginning skills in ballet, jazz, modern and tap dance technique. Beginning choreographic elements and principles will be introduced. Student will participate in a performance as a culminating activity at the end of the course. Student must supply own dance apparel and shoes.

***Penn# 0837/0838***

***DANCE CHOREOGRAPHY I & II***

***Semesters: 2 Credits: 2 Grade***

***Level: 10-12***

***Prerequisite: Dance Performance I & II***

***Weight: 4.0 DOE# 4142***

***Course Description:***

This course is designed to continue development and application of ballet, modern, jazz, and tap techniques, concepts, and terminology. Intermediate choreographic elements and principles will be studied. Students will create and perform original choreography. They will participate in a concert performance as a culminating activity at the end of the course. Student choreography will be

presented at this time. Student must supply own dance apparel and shoes.

***Penn# 0853/0854***

***DANCE CHOREOGRAPHY III & IV***

***Semesters: 2 Credits: 2 Grade***

***Level: 11-12***

***Prerequisite: Dance Choreography I & II***

***Weight: 4.0 DOE# 4142***

***Course Description:***

This course is designed to continue development at an intermediate advanced level of ballet, modern, tap and jazz. This course will continue the development of dance composition while making connections to visual arts as well as dramatic and literacy arts. Students will explore texture and tone color, create and play with rhythms and syncopation, explore emotion and character discovery. Several performance opportunities will be given throughout the year to increase the student's appreciation of the role of a choreographer as well dance as a form of art. Student must supply own dance apparel and shoes.

participate in a concert performance as a culminating activity at the end of the course. Student choreography will be presented at the time. Student must supply own dance apparel and shoes.

***Penn# 0850/0851***

***ADVANCED DANCE I & II***

***Semesters: 2 Credits: 2 Grade***

***Level: 11-12***

***Prerequisites: Dance Choreography I & II AND Audition***

***Weight: 4.0 DOE# 4146***

***Course Description:***

This course is designed to continue the advanced development of ballet, modern, jazz and tap techniques. This course includes the study dance anatomy, dance nutrition, the elements of dance choreography as well as advanced dance terminology. Students will create and perform original choreography. This course provides for more performance opportunities at school and in the community. They will

# THEATRE

## **Theatre Arts I & II**

**(9-12)**

**(343/344)**

## **Technical Theatre I & II**

**(9-12)**

**(347/348)**

## **Advanced**

## **Theatre Arts I & II**

**(10-12)**

**(345/346)**

## **Advanced Technical Theatre I & II**

**(10-12)**

**(381/382)**

## **Advanced Acting I & II**

**(11-12)**

**(383/384)**

## **THEATRE**

***All theater courses meet the Fine Arts requirement of the Core 40 Diploma with Academic Honors***

**Penn# 0343/0344**

**THEATRE ARTS I & II**

**Semesters: 2 Credits: 2 Grade**

**Level: 9-12**

**Weight: 4.0 DOE# 4242**

**Course Description:**

This course is for students who want an introduction to theatre through acting and performance. Areas of study will include voice and diction, observation, pantomime, improvisation and character development. Student activities will include daily theatre games, vocal and physical warm-ups. Students will learn to create characters through the use of movement, gestures, facial expression, and language in improvised and scripted activities. Some study of early theatre history and Shakespeare will provide students with a historical and cultural context. Performance evaluations will be required in class. Written evaluation of a live performance will be required. Field trip expenses may vary. Required audition, rehearsals, or performances may be held outside of the school day.

**Penn# 0345/0346**

**ADVANCED**

**THEATER ARTS I & II**

**Semesters: 2 Credits: 2 Grade**

**Level: 10-12**

**Prerequisite: Theatre Arts I & II**

**Weight: 4.0 DOE# 4240**

**Course Description:**

This course is for students who want a deeper knowledge of acting and performance. Students will practice using the voice, body and mind to

create characters through scripted and improvised activities. More in-depth practice will be done with the voice including articulation, enunciation, volume, stress, speed, pitch, inflection, and intonation. Acting theory and script analysis will be explored and put to use in the performance of monologues, scenes and plays. Study will also include theatre history, the audition process, and career opportunities within the theatre world. Students will complete a written evaluation of a live theatre performance using predetermined criteria. Students collaborate with Advanced Acting students to put on a production. Required audition, rehearsals, or performances may be held outside of the school day. Field Trip expenses may vary.

**Penn# 0383/0384**

**ADVANCED ACTING I & II**

**Semesters: 2 Credits: 2 Grade**

**Level: 11-12**

**Prerequisites: Advanced Theater**

**Arts I & II**

**Weight: 4.0 DOE# 4250**

**Course Description:**

Students enrolled in Advanced Acting will be cast in productions performed to meet educational needs of students in other classes and at other grades and also be performed for the general public. Students will research, create, and perform characters through script analysis, observation, collaboration and rehearsal. These Activities will incorporate elements of theater history, culture, analysis, response, creative process and integrated studies. Additionally, students explore career opportunities in the theater by attending plays, meeting actors and discussing their work, and becoming theatre patrons in their communities. Required rehearsals and performances

will be held outside the school day. Field trip expenses vary.

**Penn# 0347/0348**

**TECHNICAL THEATRE I & II**

**Semesters: 2 Credits: 2 Grade**

**Level: 9-12**

**Weight: 4.0 DOE# 4244**

**Course Description:**

This course is for students who want to learn about the many technical aspects of play production. Instruction will combine technical theatre theories of design, construction, operation, and safety. Students will have opportunities to develop skills with scenery, lighting, sound, properties, costumes, and make-up. Study will include script analysis and the evaluation of live theatre. Career opportunities in technical theatre arts will be explored. In addition to class time, students will be required to participate in some out of class projects. Field trip expenses vary.

**Penn# 0381/0382**

**ADVANCED TECHNICAL THEATER I & II**

**Semesters: 2 Credits: 2 Grade**

**Level: 10-12**

**Prerequisite: Technical Theatre I & II**

**Weight: 4.0 DOE# 4252**

**Course Description:**

Students enrolled in Technical Theatre will actively lead and supervise in the process of designing, building, managing, programming, drafting and implementing the technical aspects of a production. These activities will incorporate elements of theatre history, culture, analysis, aesthetic response, creative process and integrated studies. Additionally, students investigate technical theatre careers, and develop a plan for potential employment or further education through audition, interview or

presentation of a portfolio. Students also attend and critique theatrical productions and serve on production crews. Field trip expenses vary.

**Penn# 1864 (1860 -0 credit)**

**THEATER INTERNSHIP (WBL)**

**Semesters: 2 Credits: 2**

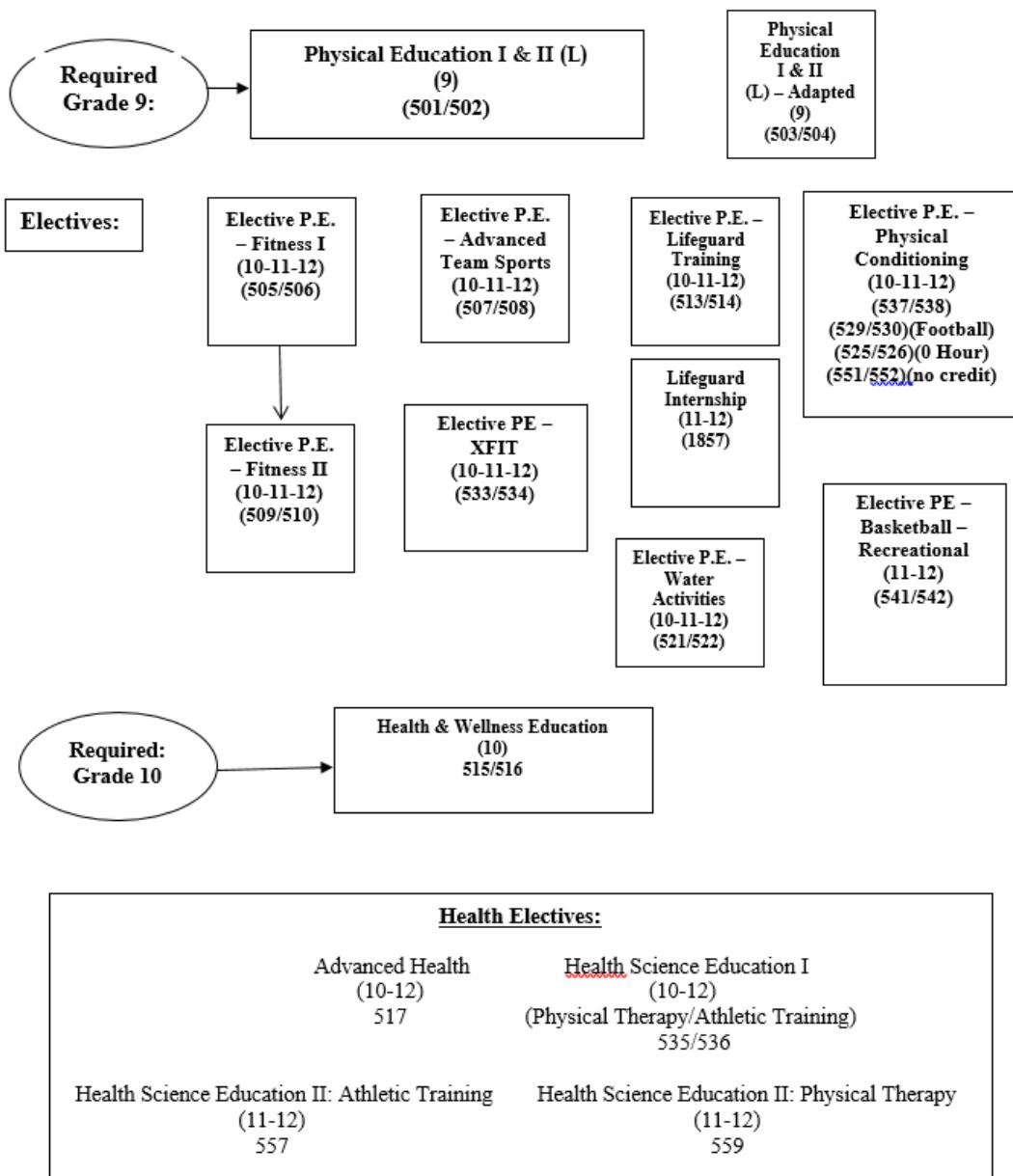
**Grade Level: 10-12**

**Weight: 4.0 DOE# 5974**

**Course Description:**

This internship focuses on theatre management, giving students hands-on experience maintaining and preparing both a proscenium stage theatre and a black box theatre. Students will learn how to do basic maintenance with audio and visual cables, hang and focus lighting equipment, place and route sound on stage, troubleshoot control surfaces, build sets, and learn the inner workings of a theatre.

# PHYSICAL EDUCATION



## PHYSICAL EDUCATION & HEALTH DEVELOPMENT

FITNESS: Mind~Body~Academics

### PHYSICAL EDUCATION (9)

**Penn# 0501/0502**

#### **PHYSICAL EDUCATION I & II**

**Semesters: 2 Credits: 2 Grade**

**Level: 9**

**Weight: 4.0 DOE# 3542 & 3544**

#### **Course Description:**

**Required attire: Gold shirt & Black shorts.** Secondary Physical Education I & II are based on health-related fitness and developing the skills and habits necessary for a lifetime of activity. This course includes the five components of physical fitness. Activities such as aerobic activity, aquatics, team sports, recreational sports, individual and dual sports will be used to create an interest in developing and maintaining physical fitness. Students will evaluate their own fitness level through a fitness assessment fall and winter. Students will complete nutrition, fitness and wellness through interactive physical education in a blended learning environment. Vital knowledge will be conveyed through this learning to stay fit, healthy and happy while creating extended opportunities in class for participation.

### ELECTIVE PHYSICAL EDUCATION COURSES

***Classes in Advanced PE can be taken a second time for credit. Students need to be in good standing for dress and participation, receiving A or B in the course the first time. Teacher discretion can be implemented.***

**Penn# 0537/0538 (for credit)**

**0551/0552 (for no credit)**

**0525/0526 ("0"Hour)**

**0529/0530 (Football players)**

#### **PHYSICAL CONDITIONING**

**Semesters: 1 Credits: 1**

**Grade Level: 10-12 (during the school day) and 9 (zero hour)**

**Prerequisite: Desire to tryout and/or participate on a Penn athletic team**

**Weight: 4.0 DOE# 3560**

#### **Course Description:**

This is a performance based class and participants will be expected to work through a prescribed workout under the guidance of a Certified Strength and Conditioning Coach. Student-athletes will learn a variety of techniques that can be used to improve all aspects of physical fitness and performance. Students will explore how to improve upper, lower, and core body flexibility, strength and power. They will work on ways to improve agility, speed, and nutrition.

**Penn# 0505 AND/OR 0506**

#### **FITNESS I**

**Semesters: 1 Credits: 1**

**Grade Level: 10-12**

**Prerequisite: B or better in Physical Education I & II OR teacher approval**

**Weight: 4.0 DOE# 3560**

#### **Course Description:**

This class will offer a set routine that will encompass total-body muscle fitness, as well as cardiovascular fitness. Students will utilize muscle fitness and cardiovascular machines (no free weights). Students proper work habits and good time management skills. Correct technique for weight training will be introduced and implemented by all students, whether beginners or experienced lifters. Throughout the semester students will gain an understanding of how to develop each muscle group, how to maximize workout benefits, how to monitor and assess progress, and how to achieve personal goals. Near the end of the semester, students will determine and utilize their own muscle fitness routine.

To take course a second time: student must have earned an "A" or "B" in Fitness I the first time.

**Penn# 0509 AND/OR 0510**

#### **FITNESS II**

**Semesters: 1 Credits: 1**

**Grade Level: 11-12**

**Prerequisite: B or better in Fitness I OR teacher approval**

**Weight: 4.0 DOE# 3560**

#### **Course Description:**

This will be a continuation of skills learned in Fitness I, new individualized programs, continued learning of muscle groups and workouts to aid in lifetime fitness. The course will offer individualized programs for physical improvement. Correct techniques for use of weights and three different programs for weight training will be introduced and implemented. An individualized program will be set up to meet each student's needs. Machine weights and cardiovascular machines will be utilized, not free weights. To take course a second time: student

must have earned an "A" or "B" in Fitness II the first time.

**Penn# 0533 AND/OR 0534**

**XFIT**

**Semesters: 1 Credits: 1**

**Grade Level: 10-12**

**Prerequisites: B or better in Physical Education I & II OR teacher approval**

**Weight: 4.0 DOE# 3560**

**Course Description:**

XFIT is a strength and conditioning program. It is not sport specific and promotes general overall physical fitness. XFit workouts call for participants to work hard and fast with little rest. Competence will be required in cardiovascular/respiratory endurance, stamina, strength, flexibility, power, speed, agility, balance, coordination and accuracy. A combination of athletic conditioning, plyometrics, Olympic weightlifting, medicine ball and dumbbell training, some swimming is possible, body weight movements, running and jump roping will be used. The workouts are always varied. **Application must be filled out and approved by teacher in order to take XFit twice.**

**Penn# 0513 AND/OR 0514**

**LIFEGUARD TRAINING**

**Semesters: 1 Credits: 1**

**Grade Level: 10-12**

**Prerequisite: B or better in Physical Education I & II AND Pass Swim Test**

**Weight: 4.0 DOE# 3560**

**Course Description:**

Swim Test consists of: 550 yard swim including breaststroke & front crawl with rhythmic breathing, swim 20 yds., surface dive to a depth of 7 ft., retrieve a 10 lb. object, return to surface, and swim 20 yds. back to the starting point, exit without ladder ( 1 minute, 40 seconds). Swim 5 yds; submerge and

retrieve three diving rings placed 5 yds apart in 4-7 feet of water; resurface; and swim 5 yds to the side of pool. This course provides participants with the knowledge, skill, and practice needed to become well-trained and effective lifeguards at pools and at a waterfront environment. Certificates are given.

**Penn# 1858 (1857 0 credit)**

**PENN LIFEGUARD INTERNSHIP (WBL)**

**Semesters: 2 Credits: 2**

**Grade Level: 11-12**

**Prerequisite: Waterfront lifeguard certification, CPR for the professional lifeguard certification, first aid certification, AED certification.**

**Weight: 4.0 DOE# 5974**

**Course Description:**

This course is intended to help develop strong skills and work ethic in student lifeguards. Students will be responsible for ensuring the safety of facility patrons by preventing and responding to emergencies. Students will perform lifeguard surveillance, rescue techniques, emergency preparations, and head, neck and back management skills. Students will perform various maintenance duties to meet class standards and the duties of a lifeguard. Students will also be expected to participate in mandatory in-service training. Student interns will be highly recommended for paid lifeguard positions through Penn High School Aquatics.

**Penn# 0521 AND/OR 0522**

**WATER ACTIVITIES**

**Semesters: 1 Credits: 1**

**Grade Level: 10-12**

**Prerequisite: Physical Education I & II AND Pass Swim test OR Case Conference Committee recommendation**

**Weight: 4.0 DOE# 3560**

**Course Description:**

Swim Test includes: 4 laps of pool, Tread water for 5 minutes, Comfortable swimming in deep water for long periods of time. Water Activities is a one-semester course where students may enhance their physical fitness through water related activities. Students use their swimming ability to play a variety of water games and team challenges such as water polo, ultimate torpedo, water basketball, diving board games and water soccer. Students have the opportunity to be introduced to scuba diving and experience an actual dive in the pool. Students will create and present their own pool game.

**Penn# 0507 AND/OR 0508 (Coed)  
0547 AND/OR 0548 (Girls)**

**ADVANCED TEAM SPORTS**

**Semesters: 1 Credits: 1**

**Grade Level: 10-12**

**Prerequisite: Physical Education I & II**

**Weight: 4.0 DOE# 3560**

**Course Description:**

Advanced Team Sports promotes lifelong physical activity through team sports. Students will incorporate daily fitness into a lifetime routine. This elective will feature advanced fundamentals, techniques, and strategies of the following activities: softball, tennis, flag football, ultimate frisbee, indoor soccer, volleyball, basketball, and recreational sports.

To take a course a second time: student must have earned an "A" or "B" in ATS the first time.

**\*\*We do offer a female section as well as the coed option.**

**Penn# 0541 AND/OR 0542****BASKETBALL-Recreational****Semesters: 1 Credits: 1****Grade Level: 11-12****Prerequisite: B or better in Physical Education I & II OR teacher approval****Weight: 4.0 DOE# 3560****Course Description:**

This one semester course is designed to meet the fitness needs of both boys and girls who want to use the sport of basketball for cardiovascular exercise. With the class focus on basketball game play, students will use half of the daily class time in half court 5 on 5 competition and the other half of class on full court 5 on 5 competition. All students will demonstrate basketball game play knowledge and take turns with officiating responsibilities of the full court game. Daily sportsmanship is required. Course can only be taken one time each semester.

## **HEALTH**

**Penn# 0515 OR 0516****HEALTH & WELLNESS EDUCATION****Semesters: 1 Credits: 1****Grade Level: 10****Weight: 4.0 DOE# 3506****Course Description:**

All things talked about in Health apply to everyday life, now and forever. Health Education is designed to foster knowledge and attitudes leading to wellness and healthy lifestyles choices. This course includes wellness, mental health and mental illness, stress management, CPR, dating relationships (including dating violence), human sexuality, pregnancy and sexually transmitted infections, suicide, nutrition, and drug and alcohol education, including prescription drugs and vaping. This course assists students in understanding that health

is a lifetime commitment by analyzing individual risk factors and health decisions that promote health and prevent disease. A variety of instructional strategies and current events will bring this course to life. Peer class discussions also make this a don't miss class.

**Penn# 0517 OR 0518****ADVANCED HEALTH EDUCATION****Semesters: 1 Credits: 1****Grade Level: 10-12****Prerequisite: Health & Wellness Education****Weight: 4.0 DOE# 3500****Course Description:**

Advanced Health Education is a health elective course for those students who may be interested in a health related career. Students will study the history of medicine, systems of the body, bones and muscles, CPR, Torts, risk appraisals and current health trends. Careers in health are researched, explored and job shadowed. Canvas work and job interviews are also included.

**Penn# 0535****HEALTH SCIENCE EDUCATION I****Semesters: 2 Credits: 2****Grade Level: 10-12****Weight: 4.0 DOE# 5282****Course Description:**

Physical Therapy/Athletic Training-Health Science Education I is a course designed to provide a foundation of skill development to health careers. Students will receive an introduction to healthcare systems, anatomy, physiology and medical terminology. Laboratory experiences are organized and planned around the activities associated with the student's career objectives. This course will include CPR/AED/First Aid Certification and

taping technique labs and modality use.

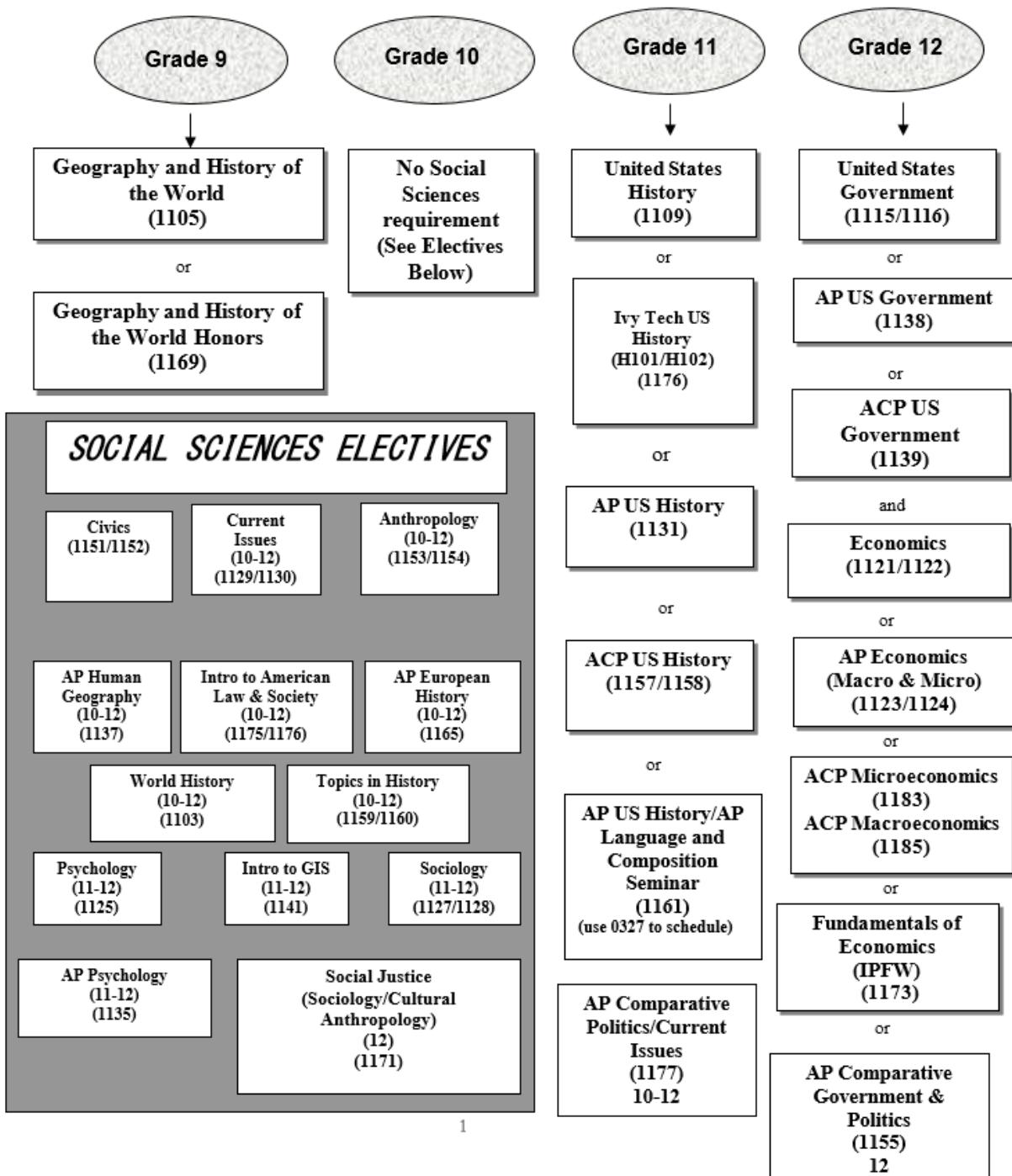
**Penn# 0557****HEALTH SCIENCE EDUCATION II: ATHLETIC TRAINING****2 Semesters 2 Credits****Grades: 11-12****Prerequisite: Health Science Education I****Weight: 4.0 DOE # 5290**

**COURSE DESCRIPTION:** Extended laboratory experience at a qualified clinical site designed for students to assume the role of a student athletic trainer assistant and practice using the technical skills and information previously learned in the classroom. This course prepares students with the knowledge, skills and attitude essential for providing basic care under the direction of licensed Athletic Trainers.

**Penn# 0559****HEALTH SCIENCE EDUCATION II: PHYSICAL THERAPY****2 Semesters 2 Credits****Grades: 11-12****Prerequisite: Health Science Education I****Counts as 3rd science course****Weight: 4.0 DOE # 5215**

**COURSE DESCRIPTION:** Extended laboratory experience at a qualified clinical site designed for students to assume the role of a physical therapy assistant and practice using the technical skills and information previously learned in the classroom. This course prepares students with the knowledge, skills and attitude essential for providing basic care under the direction of licensed Physical Therapists.

# SOCIAL SCIENCES



## SOCIAL SCIENCES

**Penn# 1137**



**AP® HUMAN GEOGRAPHY**

**Semesters: 2 Credits: 2**

**Grade Level: 10-12**

**Prerequisite: Geography and History of the World**

**Weight: 5.0 DOE# 1572**

**Course Description:**

The purpose of this course is to introduce students to the systematic study of patterns and processes that have shaped human understanding, use, and alteration of the Earth's surface. Students employ spatial concepts and landscape analysis to analyze human social organization and its environmental consequences. They also learn about the methods and tools geographers use in their science and practice. All students enrolled in this course will take the AP® Human Geography exam in the spring.

**Penn# 1103**



**WORLD HISTORY AND CIVILIZATION**

**Semesters: 2 Credits: 2**

**Grade Level: 10-12**

**Weight: 4.0 DOE# 1548**

**Course Description:**

This course is designed to give a panorama of history from earliest times to 1900. It covers the traditional societies of the West, Asia, and Africa. The course is designed to show the continuity of history; forces and ideas that have shaped history; and

developments in the arts, religion, and social life.

**Penn# 1165**



**AP® EUROPEAN HISTORY**

**Semesters: 2 Credits: 2**

**Grade Level: 10-12**

**Prerequisites: Geography and History of the World**

**Weight: 5.0 DOE# 1556**

**Course Description:**

In AP European History, students investigate significant events, individuals, developments, and processes from approximately 1450 to the present. Students develop and use the same skills, practices, and methods employed by historians: analyzing primary and secondary sources; developing historical arguments; making historical connections; and utilizing reasoning about comparison, causation, and continuity and change over time. European History takes several field trips per year in order to study different art movements.

evolution. Students will develop and hone critical writing, reading, and thinking skills throughout the course as they examine America from the late 19th century to the start of the 21st.

**Penn# 1131**



**AP® U.S. HISTORY**

**Semesters: 2 Credits: 2**

**Grade Level: 11**

**Weight: 5.0 DOE# 1562**

**Course Description:**

Advanced Placement® United States History provides students with the equivalent of a college-level survey of United States history from the Age of Exploration to the present. The course emphasizes in-class essays and document-based writings to assess student understanding.

**Penn# 1157/1158**



**ACP U.S. HISTORY**

**Semesters: 2 Credits: 2**

**Grade Level: 11**

**Prerequisite: Must meet I.U. admissions requirement**

**Weight: 5.0 DOE# 1542**

**IU- HIST-H 105 American History I / HIST-H 106 American History II**

**College Credits: 6**

**Course Description:**

This is a college course designed for capable juniors who meet the standards of academic rigors and success equaling those of a college freshman. Although this course is offered to meet Indiana's state

**Penn# 1109**



**U.S. HISTORY**

**Semesters: 2 Credits: 2**

**Grade Level: 11**

**Weight: 4.0 DOE# 1542**

**Course Description:**

This course examines the American experience through a thematic approach of America's political, social, and economic history. The objective will be to investigate what is the American experience and its constant

standards for US History credit, its applicants must meet guidelines prescribed by Indiana University. Students will earn six credit hours that are accepted at not only Indiana University, but all other state schools as well as over 700 colleges and universities across the country. The student will be awarded a weighted grade for this course. The course will focus on various themes beginning with the age of exploration and continuing through the Reagan presidency. Students will focus on these themes through various strategies including reading primary and secondary sources, and historical writing projects and presentations. ACP United States History is a course that allows students an in-depth study of the history of our great nation. Students are awarded three credit hours per semester for earning a C or better. Students must meet admission requirements to attend Indiana University if they are taking the course for I.U. credit. Students enrolled in ACP US History for IU credit must pay the additional hourly fee assessed by Indiana University to cover the cost of six credit hours. Students receiving free and reduced lunches can have this fee waived. See the ACP US History instructor for more details.

**Penn# 0320/1179** 

**ACP US HISTORY and ENGLISH 11 HONORS SEMINAR**

**Semesters: 2 Credits: 4**

**Grade Level: 11**

**Prerequisite: English 10 AND meet I.U. admissions requirements**

**6 college credits**

**Weight: 5.0 DOE# 1006/1542**

**IU- HIST-H 105 American History I / HIST-H 106 American History I**

**Course Description:**

This is a college course designed for capable juniors who meet the standards of academic rigors and success equaling those of a college freshman. Students will receive **2 HS Credits in English 11 Honors & 2 HS Credits in ACP US History**. Although this course is offered to meet Indiana's state standards for US History credit, its applicants must meet guidelines prescribed by Indiana University. Students will earn six credit hours that are accepted at not only Indiana University, but all other state schools as well as over 700 colleges and universities across the country. The student will be awarded a weighted grade for the history portion of the class. The course will focus on various themes beginning with the age of exploration and continuing through the Reagan presidency. Students will focus on these themes through various strategies including reading primary and secondary sources, and historical writing projects and presentations. ACP United States History is a course that allows students an in-depth study of the history of our great nation. Students are awarded three credit hours per semester for earning a C or better. Students must meet admission requirements to attend Indiana University if they are taking the course for I.U. credit. The course will also develop students' skills in writing, critical thinking, literary analysis, and close reading. Texts that support the historical context will be explored including poetry, short stories, novels, etc. Students will be asked to work individually as well as collaboratively throughout the year.

**Grade Level: 11-12**

**Prerequisite: AP® Human**

**Geography**

**Weight: 4.0 DOE# 1550**

**Course Description:**

**GIS- GEOGRAPHIC INFORMATION SYSTEMS.** This course is designed to introduce students to various GIS technologies. Students will be made aware of career opportunities in this field and be provided with the skills necessary to pursue further study and employment in the areas of development and utilization of GIS. With these goals in mind, students will use computer applications such as Google Earth and ArcGIS software to complete modules designed to help them understand, analyze, and interpret information from GIS maps. Furthermore, this course will aid the development of problem solving, data analysis, interpretation of spatial relationships as well as gaining empathy for the geography of the student's surroundings, as well as aspects of globalization.

**Penn# 1167/1168** 

**IVY TECH U.S. HISTORY**

**Semesters: 2 Credits: 2**

**Grade Level: 11**

**Weight: 4.5 DOE# 1542**

**HIST 101 Survey of American History I / HIST 102 Survey of American History II**

**College Credits: 6**

**Course Description:**

**HIST 101, SURVEY OF AMERICAN HISTORY I** - Covers major themes and

events in history including exploration of the New World; the colonial period; causes and results of the American Revolution; the development of the federal system of government; the growth of democracy; early popular American culture; territorial expansion;

**Penn# 1141 OR 1142**

**INTRODUCTION TO GIS**

**Semesters: 1 Credits: 1**

slavery and its effect; reform movements, sectionalism; causes and effects of the Civil War.

**HIST 102, SURVEY OF AMERICAN HISTORY II** - Covers major themes including the post-Civil War period, western expansion, industrial growth of the nation and its effects, immigration and urban discontent and attempts at reform, World War I, the Roaring Twenties, social and governmental changes of the thirties, World War II and its consequences, the growth of the federal government, social upheaval in the sixties and seventies, and recent trends in conservatism, globalization, and cultural diversity.

**Penn# 1161 / 0327**



**AP® US HISTORY/**

**AP® ENGLISH LANGUAGE & COMPOSITION SEMINAR**

**Semesters: 2 Credits: 4**

**Grade Level: 11**

*(The seminar will be taught in a 2-period block.)*

**Weight: 5.0 DOE# 1562/1056**

**Course Description:**

Students will receive 2 HS Credits in US History & 2 HS Credits in English. Enrollment in AP® Language/AP® U.S. History Seminar signals a decision to begin studying language and history at the college level. Advanced Placement® courses are modeled after college freshman courses and are designed for motivated students who have the desire and determination to gain Advanced Placement® credit while still in High School. This seminar will integrate literature with history and will encompass history and literature from the Age of Exploration to present-day America. In addition, the course will emphasize collaborative learning,

providing students with the opportunity to further develop both their practical, problem-solving skills and their analytical skills. Finally, students will redefine their ability to respond to nonfiction texts with fluency, clarity, and accuracy. Students who enroll in this course must possess strong writing and critical thinking skills as demonstrated by their work in previous English and Social Studies classes.

**Penn# 1115 OR 1116**



**U.S. GOVERNMENT**

**Semesters: 1 Credits: 1**

**Grade Level: 12**

**Weight: 4.0 DOE# 1540**

**Course Description:**

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 will understand the nature of citizenship, politics, and government and understand the rights and responsibilities of citizens and how these are part of United States government. Students will examine how the United States Constitution protects rights and provides the structure and functions of various levels of government. Using primary and secondary resources, students will articulate, evaluate, and defend positions on political issues and events. As a result, they will be able to explain the role of individuals and groups in government, political, and civic activities and the need for civic and political engagement of citizens in the United States. Students will examine a variety of literary resources throughout the semester from reputable news

organizations, political science research, and text.

**Penn# 1138**



**AP® U.S. GOVERNMENT &**

**POLITICS**

**Semesters: 1 (2nd sem. only)**

**Credits: 1**

**Grade Level: 12**

**Weight: 5.0 DOE# 1560**

**Course Description:**

AP® U.S. Government and Politics provides a college-level, non partisan introduction to key political concepts, ideas, institutions, policies, interactions, roles, and behaviors that characterize the constitutional system and political culture of the United States. Students will study U.S. foundational documents, Supreme Court decisions, and other texts and visuals to gain an understanding of the relationships and interactions among political institutions, processes, and behaviors. They will also engage in disciplinary practices that require them to read and interpret data, make comparisons and applications, and develop evidence-based arguments. In addition, students will complete a political science research or applied civics project. The required project adds a civic component to the course, engaging students in exploring how they can affect, and are affected by, government and politics throughout their lives.

**Penn# 1139**



**ACP POLITICAL SCIENCE**

**IU- POLS-Y 103 Introduction to American Politics**

**Semesters: 1 Credits: 1**

**Grade Level: 12**

**Prerequisite: Meet IU admission requirements**

**College credits: 3**

**Weight: 5.0 DOE# 1540**

**Course Description:**

ACP Political Science is a 100 level college course designed for capable seniors who meet the standards of academic rigors and success equaling those of a college freshman. Although this course is offered to meet Indiana's state standards for U.S. Government credit, its applicants must meet guidelines prescribed by Indiana University. In this college course students are invited to share the view of the political science researcher looking into the microscope. What makes citizens tick? How do they make decisions? How do people organize themselves and express their various interests? How do they decide what role government ought to play in their lives, and what happens if they disagree about such fundamental issues? Do people make rational decisions when they vote? What does it mean to be rational? Does the democratic process "work"? The course will employ a blended learning format. IU will provide content via video lectures and unit exams. The classroom teacher will provide pedagogical support to facilitate the application, analysis, and evaluation of the content prescribed by I.U. NOTE: Students are awarded three credit hours per semester and a weighted grade for earning a C or better. Students must pay the additional hourly fee assessed by Indiana University to cover the cost of three credit hours. Students receiving free and reduced lunches can have this fee waived. See the ACP Political Science instructor for more details.

**Penn# 1121 OR 1122** 

**ECONOMICS**

**Semesters: 1 Credits: 1**

**Grade Level: 12**

**Weight: 4.0 DOE# 1514**

**Course Description:**

Economics is a one-semester course of study required for graduation. This course is designed to acquaint students with the basic principles of theory and application. This course of study is designed to increase the student's understanding of different classifications of economic organization; the market system and its functions of production; distribution; and consumption; the general business cycle; and the role of government, labor, business, consumers, banking and credit in the economy.

of government in promoting greater efficiency and equity in the economy.

There are two AP® tests associated with this course.

**Penn# 1183**

**ACP MICROECONOMICS**

**1 Semester 1 Credit**

**Grade: 11-12**

**Weight 5.0 DOE# 1514**

**IU Credit given**

**This is a Quantitative**

**Reasoning course**

**Course Description:**

**ACP Microeconomics** - This course will focus on scarcity, opportunity cost, competitive and non-competitive market pricing, and interdependence as an analytical core. Individual sections apply this core to a variety of current economic policy problems, such as poverty, pollution, excise taxes, rent controls, and farm subsidies. Students are awarded three credit hours for earning a C or better. Students must meet admission requirements to attend Indiana University if they are taking the course for I.U. credit.

**Penn# 1123 AND 1124** 

**AP® MACRO & MICRO ECONOMICS**

**Semesters: 2 Credits: 2**

**Grade Level: 11-12**

**Weight: 5.0 DOE# 1564/1566**

**Course Description:**

AP® Economics is a two-semester course of study which fulfills the economic graduation requirement. This course in Macroeconomics and Microeconomics is designed to give students a thorough understanding of the principles of economics. In Macroeconomics students will learn to measure economic performance, national income, price determination, the financial sector, inflation, unemployment, stabilization policies, economic growth, and international trade and finance. In Microeconomics the primary emphasis is on the nature and functions of product markets and the study of factor markets and the role

**Penn# 1185**

**ACP MACROECONOMICS**

**1 Semester 1 Credit**

**Grade: 11-12**

**Weight: 5.0 DOE# 1514**

**IU Credit given**

**This is a Quantitative**

**Reasoning course**

**Course Description:**

**ACP Macroeconomics** - This course is focused on measuring and explaining aggregate economic performance, money, monetary policy, and fiscal policy as an analytical core. Individual sections apply this core to a variety of current

economic policy problems, such as inflation, unemployment, and economic growth. Students are awarded three credit hours for earning a C or better. Students must meet admission requirements to attend Indiana University if they are taking the course for I.U. credit.

### **Penn# 1125 OR 1126**

#### **PSYCHOLOGY**

**Semesters: 1 Credits: 1**

**Grade Level: 10-12**

**Weight: 4.0 DOE# 1532**

#### **Course Description:**

Have you ever wondered why people act differently in a crowd compared to by themselves? Have you ever tried to figure out what is the best environment for studying in or how someone that seems so happy could have depression? Psychology, the scientific study of human behavior, provides an opportunity for students to gain insights into behavior patterns and our adjustments to social environments. The course will help students in gaining a better understanding of themselves as well as others as it considers such topics as: group behavior, the effects of sleep and drugs, human development over the course of a life span, memory and abnormal psychology. This class will be largely project based and assess students as they learn to do the work of Psychologists.

### **Penn# 1127 OR 1128**

#### **SOCIOLOGY**

**Semesters: 1 Credits: 1**

**Grade Level: 10-12**

**Weight: 4.0 DOE# 1534**

#### **Course Description:**

If you have ever thought about why is society this way, how did we get this

way, and how do I fit in, then this course is for you. We will examine topics such as: Why do male and female students participate in class discussions differently? Do students of the same ethnicity always sit together in the high school cafeteria? Why does the youngest child always seem to get away with everything? Sociology has answers to all of these questions. The goal of this course is to help you develop your sociological imagination. It is to learn to see the world around you sociologically and to give tools and concepts to help you analyze what you see. This course is organized around a series of hands-on, and in-class exercises. Each is designed to introduce students to a different sub-field, to familiarize you with different analytical techniques, and to learn new theories and concepts. In this class, you will work individually, in pairs, and in small groups.

### **Penn# 1609**

#### **TOPICS in PSYCHOLOGY: The SCIENCE of HAPPINESS**

**Semesters: 1 Credits: 1**

**Grade Level: 10-12**

**Weight: 4.0 DOE# 0514**

#### **Course Description:**

This course, based on Berkley's "The Science of Happiness" course and Harvard's most popular course "The Psychology of Happiness" provides for the study of the psychology and science of happiness. This course provides students the opportunity to study researched methods of happiness and practice those methods, engaging in personal and primary research of what works. Additionally, to embrace the most complete set of skills possible, students will study the cultural concepts of the good life, the linguistics of emotional health. Finally, students will engage in both primary and

secondary research to create a comprehensive plan of action to move forward in life with purpose and joy. This course includes an in-depth study of (1) the concept of happiness (2) the cultural differences of happiness (3) researched techniques connected with happiness (4) the linguistics of emotion (5) brain research (6) the role of creativity in happiness (7) the role of philosophy and religion in happiness. This course covers Indiana State Standards for psychology and sociology.

### **Penn# 1153 OR 1154**



#### **ANTHROPOLOGY**

**Semesters: 1 Credits: 1**

**Grade Level: 10-12**

**Weight: 4.0 DOE# 1502**

#### **Course Description:**

Anthropology gives students perspectives concerning patterns of culture among people. The course introduces the anthropologist's processes of observing and analyzing human behavior. Topics studied include (1) theories and principles of cultural formation, growth, function, and change; (2) the relationship of culture to environment; and (3) the relationship between cultural background and behavior.

### **Penn# 1180**

#### **ETHNIC STUDIES**

**Semesters: 1 Credits: 1**

**Grade Level: 9-12**

**Weight: 4.0 DOE# 1516**

#### **Course Description:**

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.

**Penn# 1181**  
**INDIANA STUDIES**  
**Semesters: 1 Credits: 1**  
**Grade Level: 9-12**  
**Weight: 4.0 DOE# 1518**

**Course Description:**  
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.

## **HEALTH & HUMAN SERVICES ACADEMY**

**CAPSTONE COURSE:**

**Penn# 1171/1172**  
**SOCIAL JUSTICE**  
**Semesters: 2 Credits: 2**  
**Grade Level: 12**  
**Weight: 4.0 DOE# 1534/1502**

### **Course Description:**

Students will receive **1 HS Credit in Sociology & 1 HS Credit in Anthropology**. Gandhi said, "Be the change you wish to see in the world" as he recognized the need to improve the world in which he lived. Social justice provides this opportunity to look at social and cultural issues locally, nationally, and globally. Sociology will focus on the society in which we live by examining topics such as inequalities of race and ethnicity, gender and age, social status, and culture. The course expands beyond the United States to look at anthropology, the science of humankind. Specific focus will be put on culture including education, political/economic institutions, religion, and family. Various traditions, beliefs, values, social institutions, art, and the impact of humans on other humans will be considered. During the duration of the course students are required to go outside of the classroom and do as Gandhi said by providing service to others. An intricate element of the course is to apply the knowledge learned in class to others locally, nationally, and globally through service learning.

**Penn# 1151 OR 1152**  
**CITIZENSHIP AND CIVICS**  
**Semesters: 1 Credits: 1**  
**Grade Level: 9-12**  
**Weight: 4.0 DOE# 1508**

**Course Description:**  
Citizenship & 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 relevant to the most pressing issues of the day.

**Penn# 1135**   
**AP® PSYCHOLOGY**  
**Semesters: 2 Credits: 2**  
**Grade Level: 11-12**  
**Weight: 5.0 DOE# 1558**

**Course Description:**  
This college-level course is designed for qualified students who wish to complete studies in secondary school equivalent to a college psychology introductory course. This course introduces students to the systematic and scientific study of the behavior and mental processes of human beings and other animals. Students are exposed to the psychological facts, principles, and phenomena associated with each of the major subfields within psychology. Students will be able to understand psychological principles and be able to apply them to their daily lives and the real world.

**Penn# 1129 OR 1130**   
**CURRENT PROBLEMS, ISSUES, AND EVENTS**  
**Semesters: 1 Credits: 1**  
**Grade Level: 10-12**  
**Weight: 4.0 DOE# 1512**

**Course Description:**  
Major issues facing America and the world are the focus of the course: for example, the economy, constitutional questions, energy policy, the environment, poverty, education, defense, foreign affairs, terrorism, and trade. The course will examine both events in the daily news and ongoing current issues. Students will read about topics, view special news programs, and discuss the issues that arise from these activities. Group projects, written analysis, and oral reports will also be required. Text covering various topics, as well as history textbooks,

magazines and newspaper articles, television programs, and the IMC will all serve as main sources for study.

**Penn# 1155**



### **AP® COMPARATIVE GOVERNMENT & POLITICS**

**Semesters: 1 (2nd Sem. only)**

**Credits: 1**

**Grade Level: 12**

**Weight: 5.0 DOE# 1552**

#### **Course Description:**

The AP® course in Comparative Government and Politics introduces students to fundamental concepts used by political scientists to study the processes and outcomes of politics in a variety of country settings. The course aims to illustrate the rich diversity of political life, to show available institutional alternatives, to explain differences in processes and policy outcomes, and to communicate to students the importance of global political and economic changes. In addition to covering the major concepts that are used to organize and interpret what we know about political phenomena and relationships, the course should cover specific countries and their governments. Six countries form the core of the AP® Comparative Government and Politics course: China, Great Britain, Iran, Mexico, Nigeria, and Russia. By using these six countries, the course can move the discussion of concepts from abstract definition to concrete example, noting that not all concepts will be equally useful in all country settings.

**Weight: 4.0 DOE# 1538**

#### **Course Description:**

Topics in History provides students the opportunity to study specific historical eras, events, or concepts in detail. Knowledge and development of historical research skills using primary and secondary sources is included. The course focuses on one or more topics or themes related to US history. Examples of topics might include the 1990's impact on America's modern society, the Cold War, the Roaring 20's, or the Revolutionary War.

**2 Semesters 2 Credits**

**Grades: 10-12**

**Weight: 5.0 DOE# 1552**

#### **Course Description:**

The AP® course in Comparative Government and Politics/Current Issues introduces students to fundamental concepts used by political scientists to study the processes and outcomes of politics in a variety of country settings. This course will also provide students an opportunity to observe the social life through the media. The course aims to illustrate the rich diversity of political life, to show available institutional alternatives, to explain differences in processes and policy outcomes, and to communicate to students the importance of global political and economic changes. In addition to covering the major concepts that are used to organize and interpret what we know about political phenomena and relationships, the course should cover specific countries and their governments. Six countries form the core of the AP® Comparative Government and Politics course: China, Great Britain, Iran, Mexico, Nigeria, and Russia.<sup>1</sup> By using these six countries, the course can move the discussion of concepts from abstract definition to concrete example, noting that not all concepts will be equally useful in all country settings. This course does not fulfill US Govt requirement.

**Penn# 1159 OR 1160**



### **TOPICS IN HISTORY**

**Semesters: 1 Credits: 1**

**Grade Level: 10-12**

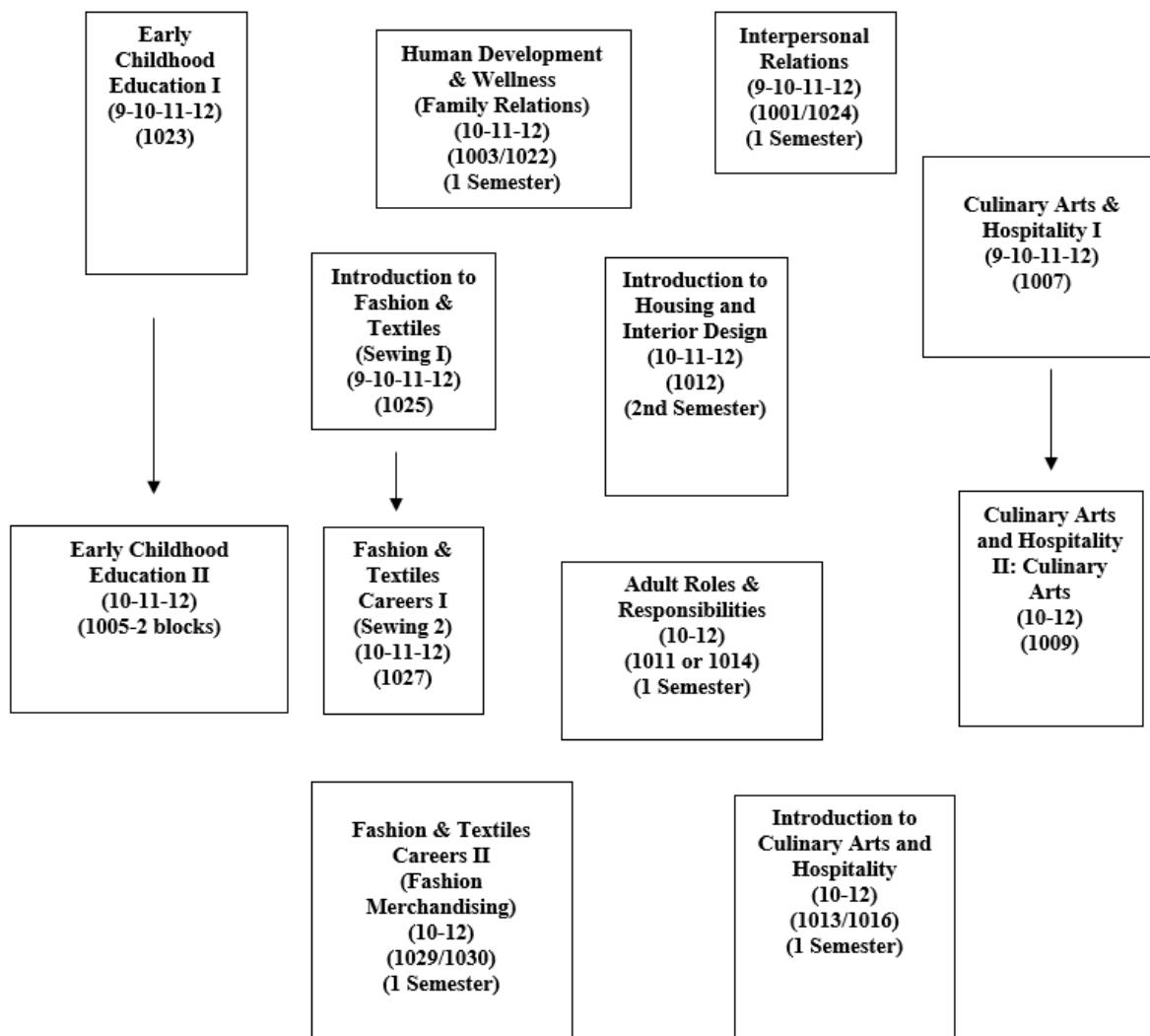
**Penn# 1177**



### **AP® COMPARATIVE GOVERNMENT**

### **& POLITICS**

# FAMILY & CONSUMER SCIENCES



## **FAMILY AND CONSUMER SCIENCE EDUCATION**

### **Penn# 1001 OR 1024**

#### **INTERPERSONAL RELATIONSHIPS**

**Semesters: 1 Credits: 1**

**Grade Level: 9-12**

**Counts as Health & Wellness**

**requirement with 2 other courses**

**Weight: 4.0 DOE# 5364**

#### **Course Description:**

This is an introductory course that is especially relevant for students interested in careers that involve interacting and working with people. It is also valuable for all students, as it provides everyday life and communication skills. Topics covered include personality, positive character traits, heredity and your environment. Students will gain skills and knowledge as it pertains to building positive and productive relationships in various aspects of life, such as career, community and various relationships. Other main topics include positive communication skills, conflict prevention and resolution, as well as digital responsibility.

### **Penn# 1023**

#### **EARLY CHILDHOOD EDUCATION I**

**Semesters: 2 Credits: 2**

**Grade Level: 9-12**

**Weight: 4.0 DOE# 5412**

#### **Course Description:**

This course is designed to explore the stages of a child's development from conception through childhood. It includes a study of the responsibilities and decisions involved in effective parenting. Emphasis is given to the physical, emotional, intellectual and social growth of the child. Student directed learning opportunities include

a toddler/parent experience (1 - 3 year olds) and play school program (3 - 4 year olds).

### **Penn# 1005**

#### **EARLY CHILDHOOD EDUCATION II**

**Semesters: 2 Credits: 4**

**Grade Level: 10-12**

**Prerequisite: Early Childhood Education I**

**Double block class- 1 period daily**

**Weight: 4.0 DOE# 5406**

#### **Course Description:**

This course emphasizes the developmental stages of children beginning with the pre-school child. Emphasis is placed on designing and implementing learning activities for children preparing to enter kindergarten. Laboratory experiences are divided between a pre-school located in Penn High School and elementary school experiences. Students intern in elementary schools more than 60 hours. Penn's Playschool 2 offers an additional 60+ hours of work with pre-school age children. This is an excellent course for students with interest in education and related career paths.

### **Penn# 1003 OR 1022**

#### **HUMAN DEVELOPMENT AND WELLNESS**

**Semesters: 1 Credits: 1**

**Grade Level: 10-12**

**Counts as Health & Wellness requirement with 2 other courses**

**Weight: 4.0 DOE# 5366**

#### **Course Description:**

This course is designed to help guide the student in making family and life decisions currently and in the future. Changing roles in society and relationships with others are examined with emphasis on preparation for marriage. The responsibilities of family

members, preventing problems in marriage, preventing divorce, and how to handle family crises effectively are also studied.

### **Penn# 1017**

#### **HUMAN AND SOCIAL SERVICES I**

**2 Semesters 2 Credits**

**Grades: 11-12**

**Weight: 4.0 DOE# 5336**

#### **Course Description:**

An introductory/exploratory course for students interested in careers in human and community services and other helping professions. Areas of exploration include family and social services, youth development, and adult and elder care, and other for-profit and non-profit services.

### **Penn# 1012**

#### **INTRODUCTION TO HOUSING AND INTERIOR DESIGN**

**Semesters: 1 Credits: 1**

**Grade Level: 10-12**

**Counts as Fine Arts requirement for Academic Honors diploma**

**Weight: 4.0 DOE# 5350**

#### **Course Description:**

This introductory course is essential for students interested in academic enrichment or a career within the housing, interior design, or furnishings industry. The class focuses on several aspects of the home, primarily its interior environment. Units of study include architectural styles, universal design, with a strong emphasis placed on the Elements of Design, Color, and the Principles of Design. Students will create and design their own room based on the concepts learned in class.

### **Penn# 1011 OR 1014**

## **ADULT ROLES AND RESPONSIBILITIES**

**Semesters: 1 Credits: 1**

**Grade Level: 10-12**

**Counts as Health & Wellness requirement with 2 other courses**

**Weight: 4.0 DOE# 5330**

### **Course Description:**

This course is structured to provide a practical study of the decisions necessary for learning to live independently. It primarily focuses on making decisions pertaining to areas such as post-secondary education, career exploration, financial literacy, housing, and being a wise consumer. The financial unit places an emphasis on savings, checking, budgeting and wise use of credit.

**Penn# 1007**

## **CULINARY ARTS & HOSPITALITY I**

**Semesters: 2 Credits: 2**

**Grade Level: 9-12**

**Weight: 4.0 DOE# 5440**

### **Course Description:**

Nutrition and Wellness enables students to learn the basics of working in the kitchen, with a focus on safety and sanitation, proper equipment use and following a recipe. It empowers them to apply these skills in their everyday lives. This course uses a lab setting for practical application of food preparation. Units of study include yeast breads, fruits, meats, poultry, cakes, cookies, candies, vegetables, pastries, cheese, rice and pasta. Other units include regional foods, eggs, quick breads, soups, and food preservation.

**Penn# 1009**

## **CULINARY ARTS & HOSPITALITY II: Culinary Arts**

**Semesters: 2 Credits: 2**

**Grade Level: 10-12**

**Prerequisite: Culinary Arts & Hospitality I**

**Weight: 4.0 DOE# 5346**

### **Course Description:**

In this course, students will continue to expand their culinary skills with both cooking and baking. They will explore various careers in the food industry as well as study global cuisine and prepare several dishes from a variety of countries. Additional units include menu planning and catering.

**Penn# 1025**

## **INTRODUCTION TO FASHION & TEXTILES**

**Semesters: 2 Credits: 2**

**Grade Level: 9-12**

**Counts as a fine arts requirement**

**Weight: 4.0 DOE# 5380**

### **Course Description:**

Sewing. This course has a project-based approach that integrates instruction and laboratory experiences including application of selection, production, alteration, repair, and maintenance of apparel and textile products. Emphasis on helping the student interpret and follow instructions from commercial patterns to wearable and non-wearable projects is also included. This course is hands on sewing and it will be necessary for the student to complete a minimum of four projects with supplies purchased by the student. Students provide their own fabric and supplies for projects.

**Penn# 1027**

## **FASHION & TEXTILES**

### **CAREERS I**

**Semesters: 2 Credits: 2**

**Grade Level: 10-12**

**Prerequisite: Introduction to Fashion & Textiles**

**Weight: 4.0 DOE# 5420**

## **Course Description:culinary**

Sewing. Fashion and Textiles Careers prepares students for occupations and higher education programs of study related to fashion, apparel, and other textiles management, production, and services. Extensive sewing and tailoring is included in this higher level. Expect to sew daily and to purchase required tools, fabric and notions for projects.

**Penn# 1029**

## **FASHION & TEXTILES**

### **CAREERS II**

**Semesters: 2 Credits: 2**

**Grade Level: 11-12**

**Prerequisite: Fashion & Textiles Careers I**

**Weight: 4.0 DOE# 5421**

### **Course Description:**

This is a specialized marketing course providing instruction in the marketing of apparel and accessories of all kinds. Emphasis is placed on oral and written communications, problem solving and critical thinking skills as they relate to apparel design, selling, pricing, distribution, fashion promotion, visual merchandising, fashion cycles, fashion theories, and career opportunities in the fashion industry. Instructional strategies may include a school-based enterprise, computer/technology applications, real and/or simulated occupational experiences, and projects in the marketing functions.

**Penn# 1013 OR 1016**

## **INTRODUCTION TO CULINARY ARTS & HOSPITALITY**

**Semesters: 1 Credits: 1**

**Grade Level: 10-12**

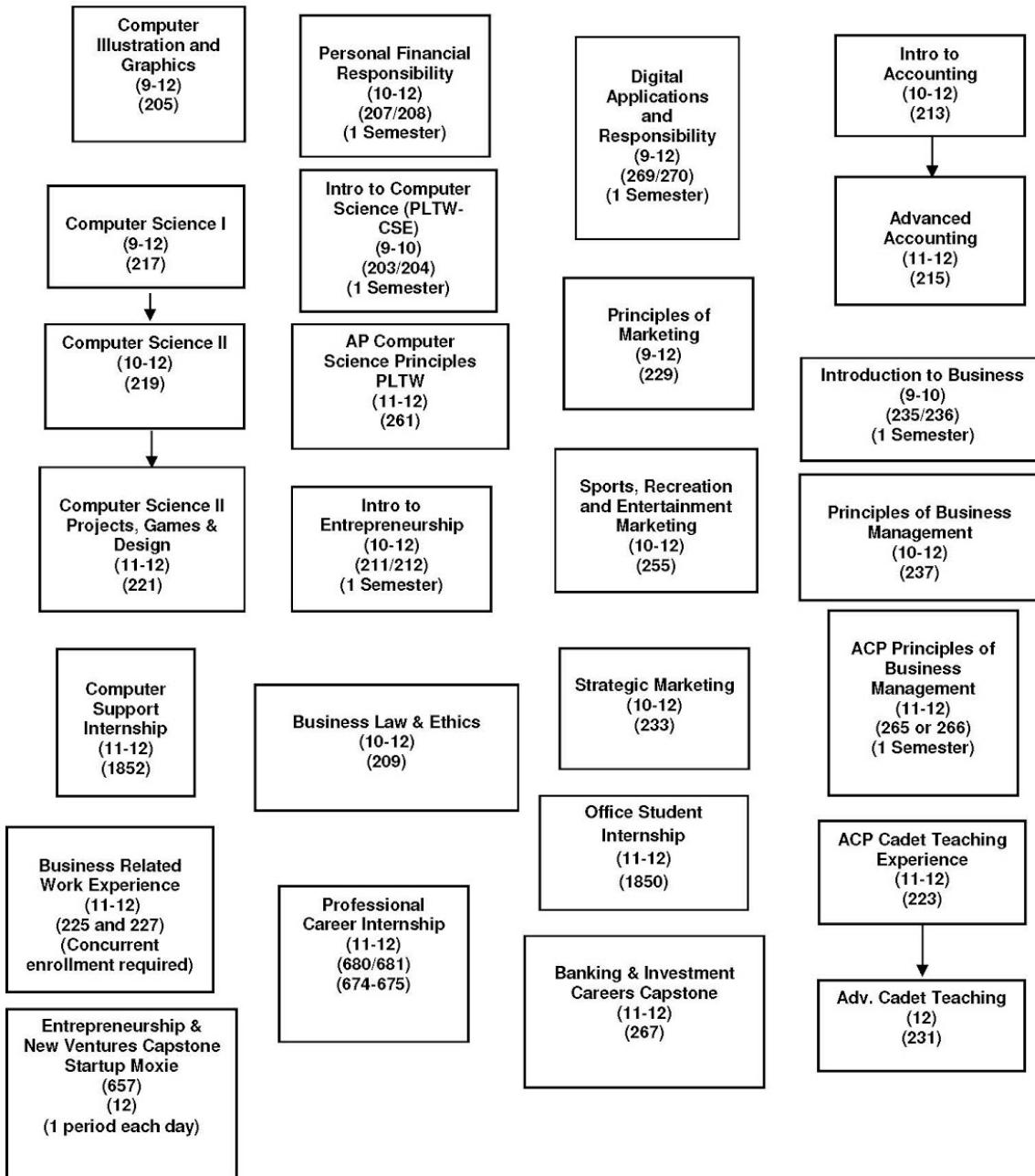
**Weight: 4.0 DOE# 5438**

### **Course Description:**

Hospitality Management prepares students for employment in the hospitality industry. It provides the

foundations for study that leads to a full spectrum of hospitality careers. This is a broad-based course that introduces students to all segments of hospitality, what it includes, and career opportunities that are available exposes students to current trends and current events within the industry. Some goals of this course are for students to be able to: identify current trends in hotel and service industry, distinguish the difference between hospitality and tourism, and understand sales and merchandising from both a tourist and occupational point of view.

# BUSINESS-MANAGEMENT & BUSINESS ACADEMY



## **BUSINESS- MANAGEMENT & BUSINESS ACADEMY**

**Penn# 0269 OR 0270** 

### **DIGITAL APPLICATIONS AND RESPONSIBILITY**

**Semesters: 1 Credits: 1**

**Grade Level: 9-12**

**Weight: 4.5 DOE# 4528**

**Ivy Tech- CINS 101 Introduction to  
Microcomputers**

**College Credits: 3**

#### **Course Description:**

Do you need to brush up on your computer skills? Would you like to be proficient in Microsoft Office? Look no further, you can take CINS here at Penn and learn those skills, which will make you a more competitive person in the job market! Students will use Microsoft Word, Excel, and Access software to create and produce letters, tables, reports, graphics applications, spreadsheets, and database projects. Students will also create projects using PowerPoint. Along with the skills acquired in this course, students will complete a professionalism unit that can be incorporated and utilized throughout a student's high school, college, and professional experience. Not open to students who have taken 2327. Dual credit is available with qualifying scores.

**Penn# 0205**

### **COMPUTER ILLUSTRATION AND GRAPHICS**

**Semesters: 2 Credits: 2**

**Grade Level: 9-12**

**Weight: 4.0 DOE# 4516**

#### **Course Description:**

Students are introduced to the computer's use in visual communication. The focus of the course is on basic computer terminology and use, mastering fundamental skills, and developing efficient working styles. These skills are then developed by creating work with imaging, drawing, interactive and page layout software. The course includes organized learning experiences that incorporate a variety of visual art techniques as they relate to the design and execution of layouts and illustrations for advertising, displays, promotional materials and instructional manuals. This course also covers advertising theory and preparations of copy, lettering, posters, vector illustrations, graphics and logos, and artwork in addition to incorporation of photographic images. Communication skills will be emphasized through the study of effective methods used to design products that impart information and ideas. Advanced instruction might

include experiences in silk screening and airbrush techniques as well as activities in designing product packaging and commercial displays or exhibits.

**Penn# 0229**

### **PRINCIPLES OF MARKETING**

**Semesters: 2 Credits: 2**

**Grade Level: 9-12**

**Weight: 4.0 DOE# 5914**

#### **Course Description:**

Principles of Marketing take place every day of your life and in every job you will hold. This is a class designed to teach students not only about the various functions of marketing, but also how each function fits with the others. Throughout the course, students will learn about marketing in a global economy, sports and entertainment marketing, fashion merchandising, E-commerce, developing a new product, professionalism, and also will be able to create an advertising campaign and learn about possible careers in Marketing. Voluntary Membership in a Marketing Club (DECA)

**Penn# 0255**

### **SPORTS & ENTERTAINMENT MARKETING**

**Semesters: 2 Credits: 2**

**Grade Level: 10-12**

**Prerequisites: Principles of****Marketing****Weight: 4.0 DOE# 5984****Course Description:**

Students taking this course will build upon their prior knowledge of marketing and learn how to apply it directly to sports, recreation and entertainment industries. Students will apply what they are learning directly to marketing sports and entertainment activities here at Penn High School for a more hands-on learning experience. Optional participation in the Career and Technical Student Organization of DECA will be made available.

**Penn# 0233****STRATEGIC MARKETING****Semesters: 2 Credits: 2****Grade Level: 10-12****Prerequisite: Principles of Marketing or DECA Membership****Weight: 4.0 DOE# 5918****Course Description:**

Recommended for all DECA students. A continuation and expansion on the Marketing class. In this class we will explore the marketing mix in more detail and work with local companies with real marketing problems. Students will be responsible for more hands-on projects and critical thinking about marketing for businesses, careers in marketing and how entrepreneurs need and use marketing. Students will be conducting different forms of marketing research, creating an in-depth marketing plan for an existing company, and producing effective advertising campaigns. Voluntary Membership in a Marketing Club (DECA).

**Penn# 0207 OR 0208 Q****PERSONAL FINANCIAL****RESPONSIBILITY****Semesters: 1 Credits: 1****Grade Level: 10-12****Weight: 4.0 DOE# 4540****Course Description:**

This is a personal finance course that introduces students to banks and the use of banking services (checking accounts, savings accounts, etc.) It also introduces students to the world of credit, how to use credit and the actual costs of using credit. Students will also be introduced to insurance. Students will learn about vehicle, banking, homes, budget, debt and investments.

**Weight: 4.0 DOE# 5967****Course Description:**

Introduction to Entrepreneurship class here at Penn. Introduction to Entrepreneurship is designed to give students the skills they need to effectively plan, market, finance, and manage a small business. This course covers topics such as: planning, knowing customers and competitors, finding a location, developing a marketing plan, small business assistance, franchising and finances. Students will create an original business plan throughout the semester for the business of their choice. Voluntary Membership in a Marketing Club (DECA)

**Penn# 0237****PRINCIPLES OF BUSINESS****MANAGEMENT****Semesters: 2 Credits: 2****Grade Level: 10-12****Weight: 4.0 DOE# 4562****Course Description:**

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.

**Penn# 0209****BUSINESS LAW & ETHICS****Semesters: 2 Credits: 2****Grade Level: 10-12****Weight: 4.0 DOE# 4560****Course Description:**

Business and Personal Law is a business course that provides an overview of the legal system. Topics covered include: Basics of the Law, Contract Law, Employment Law, Personal Law, and Consumer Laws and Rights. Both criminal and civil trial procedures are presented. Instructional strategies should include mock trials, case studies, field trips, guest speakers, and Internet projects.

**Penn# 0211 OR 0212****INTRODUCTION TO****ENTREPRENEURSHIP****Semesters: 1 Credits: 1****Grade Level: 10-12****Penn# 0235 OR 0236****INTRODUCTION TO BUSINESS****Semesters: 1 Credits: 1****Grade Level: 9-12****Weight: 4.0 DOE# 4518****Course Description:**

A great introductory course for any students interested in business. This

course will briefly cover economics, entrepreneurship, management, marketing, law, risk management, banking, personal finance, and careers in business. The importance and application of business etiquette and ethics are included. Introduction to Business will include problem-based projects and group work.

### **Penn# 0213**

#### **INTRODUCTION TO ACCOUNTING**

**Semesters: 2 Credits: 2**

**Grade Level: 10-12**

**Weight: 4.0 DOE# 4524**

#### **Course Description:**

This course presents the complete accounting cycle for keeping records for both a service-type business and a merchandising business. Instruction is given on the principles and methods of recording business transactions, preparation of financial reports, and interpretation of records. Other topics included are petty cash, sales tax, bad debts, depreciation, and notes and interest. A practice set is also included. Students will find this course helpful in keeping business records as well as their own personal financial records. It provides knowledge that can be applied in the workforce or education beyond high school. The software program Excel is used throughout the course. Provide students with accounting knowledge that is essential for any business degree or profession. Students will have the opportunity to interview with a local accounting firm for an internship.

### **Penn# 0215**

#### **ADVANCED ACCOUNTING**

**Semesters: 2 Credits: 2**

**Grade Level: 11-12**

**Prerequisite: Introduction to Accounting**

### **Quantitative Reasoning Course**

**Weight: 4.0 DOE# 4522**

#### **Course Description:**

This course is designed for the student who plans to begin work following high school graduation or for the student who plans to continue his or her education beyond high school. Students have the opportunity to develop employable skills as an accounting clerk. Students gain a deeper knowledge of accounting which is highly useful for those who plan to major in accounting or some other area of business at the college level. The student will learn to interpret and analyze all types of financial statements. Students will obtain a broad understanding of business activities and develop decision-making skills. Students will be provided with the opportunity to apply accounting practice and theory on automated computer systems. It provides knowledge that can be applied in the workforce or education beyond high school. Business software programs such as: Microsoft Excel along with QuickBooks will be implemented into this course. Course provides students with advanced accounting knowledge and skills needed for college degrees in business. Membership into the Accounting Club.

### **Penn# 1850**

#### **OFFICE STUDENT INTERNSHIP**

**(WBL)**

**Semesters: 1 or 2**

**Credit: 1 per semester of completion**

**Grade Level: 11-12**

**Weight: 4.0 DOE# 5974**

#### **Course Description:**

**Athletic & Student Activity Office, Bookstore, Academy Offices, Counseling Office, IMC, Main Office.**

Penn High School Office Internships

provide opportunities for students to assume office assistant duties and responsibilities within the school building. Students are expected to conduct themselves in accordance with a professional office setting. Students must report on time, always meet the PHS dress code, must always display PHS ID, follow directions from adult supervisors, properly greet visitors, and meet all other high school office rules and expectations. Specific responsibilities may vary from office to office. Some of the required responsibilities, for all students, include completion of writing assignments, career research assignments and creating a professional correspondence letter. In order to be one of the office student interns in Athletics/Student Activity, Bookstore, Division Offices, Guidance Office, IMC and the Main Office, students must enroll in course 1850.

### **Penn# 0203 OR 0204**

#### **INTRODUCTION TO COMPUTER**

**SCIENCE (PLTW-CSE)**

**Semesters: 1 Credits: 1**

**Grade Level: 9-10**

**Weight: 4.0 DOE# 4803**

#### **Course Description:**

Introduction to Computer Science allows students to explore the world of computer science. Students will gain a broad understanding of the areas composing computer science. Designed to be the first computer science course for students who have never programmed before, Introduction to Computer Science is a good starting point of the Computer Science Pathway. Students work in teams to create apps for mobile devices using MIT App Inventor®. They explore the impact of computing in society and build skills in digital citizenship and

cyber-security. Beyond learning the fundamentals of programming, students build computational-thinking skills by applying computer science to collaboration tools, modeling and simulation, and data analysis. In addition, students transfer the understanding of programming gained in App Inventor to text-based programming in Python® and apply their knowledge to create algorithms for games of chance and strategy.

**Penn# 0217**    
**COMPUTER SCIENCE I**  
**Semesters: 2 Credits: 2**  
**Grade Level: 9-12**  
**Counts as 3rd science course**  
**Weight: 4.5 DOE# 4801**

**Ivy Tech- SDEV 120 Computing Logic**

**College Credits: 3**

**Course Description:**

This course is designed for students with no previous programming experience, who are good problem solvers, who have acquired basic Windows skills and are interested in computer science or related career fields. This course will help students learn how to plan, create and debug their own interactive Windows applications and games using the programming language, Visual Basic 2012.

**Penn# 0219**  
**COMPUTER SCIENCE II**    
**Semesters: 2 Credits: 2**  
**Grade Level: 10-12**  
**Prerequisites: Computer Science I**  
**Counts as 3rd science course**  
**Weight: 4.5 DOE# 5236**

**Ivy Tech- SDEV 140 Introduction to Software Development**

**College Credits: 3**

**Course Description:**

This course is designed for students with a greater interest in computer science and related career fields. This course will develop and explore various techniques from previous programming classes and apply them using the programming language, C++ in a console environment using Visual Studio.

**Penn# 0239**

**NETWORKING I** 

**2 Semesters 2 Credits**

**Grades: 10-12**

**Weight: 4.5 DOE# 5234**

**IVY TECH - NETI 105 or**

**NETI 115**

**Course Description:**

Students are introduced to local and wide area networks, home networking, including 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. networking standards us

**Penn# 0221**

**COMPUTER SCIENCE III:**

**PROJECTS, GAMES, & DESIGN**

**Semesters: 2 Credits: 2**

**Grade Level: 11-12**

**Prerequisite: Computer Science II or Teacher Approval**

**Weight: 4.0 DOE# 5252**

**Course Description:**

This course is designed for students with a serious interest in computer

science and related career fields. This course will continue to develop various techniques from previous programming classes. Students will explore C# and work on game development using current frameworks and toolkits such as Unity and Visual Studio. Students have the opportunity to design unique projects in teams and individually.

**Penn# 0222**  

**COMPUTER SCIENCE III:**

**CYBERSECURITY**

**2 Semesters 2 Credits**

**Grade: 10-12**

**Prerequisites: Computer Science II OR Teacher Approval**

**Counts as 3rd science course**

**Weight: 4.0 DOE# 5253**

**This is a Quantitative Reasoning course**

**Course Description:**

Computer Science III: Cybersecurity introduces the secure software development process including designing secure applications, writing secure code designed to withstand various types of attacks, and security testing and auditing. It focuses on the security issues a developer faces, common security vulnerabilities and flaws, and security threats. The course explains security principles, strategies, coding techniques, and tools that can help make software fault tolerant and resistant to attacks.

**Penn# 1852 (with 1823)**

**INFORMATION TECHNOLOGY**

**SUPPORT II: CAPSTONE**

**Semesters: 2 Credits: 2**

**Grade Level: 10-12**

**Prerequisites: Information Technology Support I**

**Weight: 4.0 DOE# 5231**

**Course Description:**

IT Support Interns will learn how to troubleshoot computers and maintain technology equipment. Objectives of this course include IT support for teacher laptops, student & teacher Chromebooks and maintaining the technology infrastructure to help meet Penn High School technology. In addition, students will learn Linux, cyber security, and server skills.

**Penn# 0223 **

**ACP CADET TEACHING:  
EDUCATION PROFESSIONS I**

**Semesters: 2 Credits: 2**

**Grade Level: 11-12**

**Weight: 5.0 DOE# 5408**

**IU- EDUC-F 200 Examining Self As  
Teacher OR**

**Ivy Tech- EDUC 101**

**College Credits: 3**

**Course Description:**

This elective course provides students in grades eleven (11) or twelve (12) organized exploratory teaching experiences in grades kindergarten (K) through grade nine (9). All teaching experiences are preplanned by the high school teacher and the cooperating teacher(s) who are interested in supervising prospective teachers. This course provides a balance of class work relating to: (1) classroom organization, (2) classroom management, (3) the curriculum and instructional process, (4) observations of teaching, and (5) instructional experiences. Students will explore a variety of issues. Self-exploration will be blended with concrete analysis of the teaching profession. Teaching will be scrutinized from diverse perspectives, integrating key concepts with real life experiences. Teaching methods will be incorporated in the course to permit students to encounter different methods of learning. After

completing a series of in-class preparations and assignments, students will be matched with PHM teachers for a cadet teaching experience. While with the teacher they: assist with group work, class presentations, bulletin boards, library work, individual help, reading assignments, and many other areas. It is a hands-on learning environment. *Students who qualify and successfully complete the course may receive three (3) college credits from Indiana University Bloomington or IUSB (Indiana University South Bend). The college credit will be granted, at a reduced tuition rate. It is the choice of the student to take the class for high school credit only or for both high school and college credit. Students are not required to pay the college tuition, if they choose the high school credit only option. Students must have a GPA of 2.7 to receive college credit.* Students Must Provide Their Own Transportation to Elementary and Middle Schools. Students will be visiting all schools in the district set up by teacher first semester.

**Penn# 0231**

**ADVANCED CADET TEACHING:  
EDUCATION PROFESSIONS II**

**Semesters: 2 Credits: 2**

**Grade Level: 12**

**Prerequisite: ACP Cadet Teaching  
Experience & Teacher Approval**

**Weight: 4.0 DOE# 5404**

**Course Description:**

Students will be placed in various schools within the PHM Corporation for the entire year. Assignments are completed outside of class and turned in on the due date which is cited on the course syllabus. This course is offered first block and or second block of each day. Students Must Provide Their Own

Transportation to Elementary and Middle Schools.

**Penn# 0225**

**BUSINESS-RELATED CLASSROOM  
EXPERIENCE-CAPSTONE COURSE**

**Semesters: 2 Credits: 2**

**Grade Level: 11-12**

**Prerequisite: Application AND  
concurrent enrollment in 0227**

**Weight: 4.0 DOE# 6162**

**Course Description:**

**This class meets Gold Days during "A" Lunch.** Business Related Classroom Experience is the classroom component of the Business Related Work Experience program. The instruction in this class is related to the student's on-the-job training program and career goals. General instruction will center on topics such as personality and self-improvement, human relations, communication skills, money and business management, taxes, refinement of skills and career exploration.

**Penn# 0227**

**BUSINESS-RELATED WORK  
EXPERIENCE**

**Semesters: 2 Credits: 4**

**Grade Level: 11-12**

**Prerequisite: Application AND  
concurrent enrollment in 0225**

**Weight: 4.0 DOE# 5902**

**Course Description:**

Students interested in business related careers - general office assistant, bank/credit union teller, receptionist, accounting/bookkeeping, recordkeeping, data entry, sales/selling/retail, clerk, cashier, etc. should enroll in Business Related Work Experience. Business Related Work Experience is an on-the-job training program for young men and women. The student will receive a minimum of

15 hours of training each week, will be paid at least the minimum wage, and will earn four credits for this experience. The Business Related Work Experience program allows students to apply their skills, to explore career possibilities, and to receive one year of work experience. **Students must provide their own transportation**

**Penn# 0657**   
**ENTREPRENEURSHIP AND NEW VENTURES CAPSTONE**  
**Semesters: 2 Credits: 4**  
**Grade Level: 12**  
**Prerequisites: Introduction to Entrepreneurship AND Digital Applications and Responsibility AND Application**

**Weight: 4.5 DOE# 5966**

**Ivy Tech ENTR 101 The Entrepreneur and the Enterprise & ENTR 105 Entrepreneurial Marketing and Market Research**

**College Credits: 6**

**Course Description:**

**This class meets first block every day.** This is an off-site experience that is run through St. Joe County Startup Moxie Program. The class meets every day from 7:30-9:00. The class meets at various locations throughout the year. Application can be found at [www.moxieinthemaking.org](http://www.moxieinthemaking.org).

Entrepreneurship and New Ventures Capstone introduces entrepreneurship, and develop skills and tools critical for starting and succeeding in a new venture. The entrepreneurial process of opportunity recognition, innovation, value proposition, competitive advantage, venture concept, feasibility analysis, and “go to” market strategies will be explored through mini-case studies of successful and unsuccessful entrepreneurial start-ups. Additionally,

topics of government and legal restrictions, intellectual property, franchising location, basic business accounting, raising startup funding, sales and revenue forecasting, and business plan development will be presented through extensive use of word processing, spreadsheet and presentation software. Students are paired up with a mentor from the St. Joseph County business community; students are immersed in real-life learning experiences with the opportunity to take risks, manage the results, and learn from the outcomes. Students can take a second period study hall (use 0658) along with this course.

**Penn# 0265 OR 0266**   
**ACP PRINCIPLES OF BUSINESS MANAGEMENT**  
**Semesters: 1 Credits: 1**  
**Grade Level: 11-12**  
**Prerequisite: Meet IU admission requirements**

**IU- BUS-B 190 Principles of Business Admin**

**College Credits: 3**

**Weight: 5.0 DOE# 4562**

**Course Description:**

Principles of Business Administration is a college-level course that prepares students to plan, organize, direct and control the functions and processes of a firm or organization and to perform business-related functions. Students are provided opportunities to develop attitudes and apply skills and knowledge in the areas of business administration, management, and finance. Individual experiences will be based upon the student's career and educational goals. Students enrolled in ACP Principles of Business

Administration will have the opportunity to earn college credit through IU at a reduced tuition cost.

**Penn# 0267** 

**BANKING & INVESTMENT CAPSTONE**

**Semesters: 2 Credits: 2**

**Grade Level: 11-12**

**Prerequisite: Advanced Accounting**

**Weight: 4.0 DOE# 5258**

**Course Description:**

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

**Penn# 0261**

**AP® COMPUTER SCIENCE**

**PRINCIPLES (PLTW CSP)**

**Semesters: 2 Credits: 2**

**Grade Level: 11-12**

**Prerequisite: Introduction to Computer Science OR Computer Science I**

**Counts as a math course**

**Counts as 3rd science course**

**Weight: 5.0 DOE# 4568**

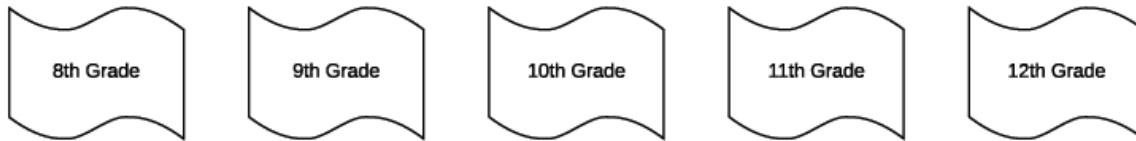
**Course Description:**

The AP® Computer Science Principles course will introduce you to the essential ideas of computer science and show how computing and technology can influence the world

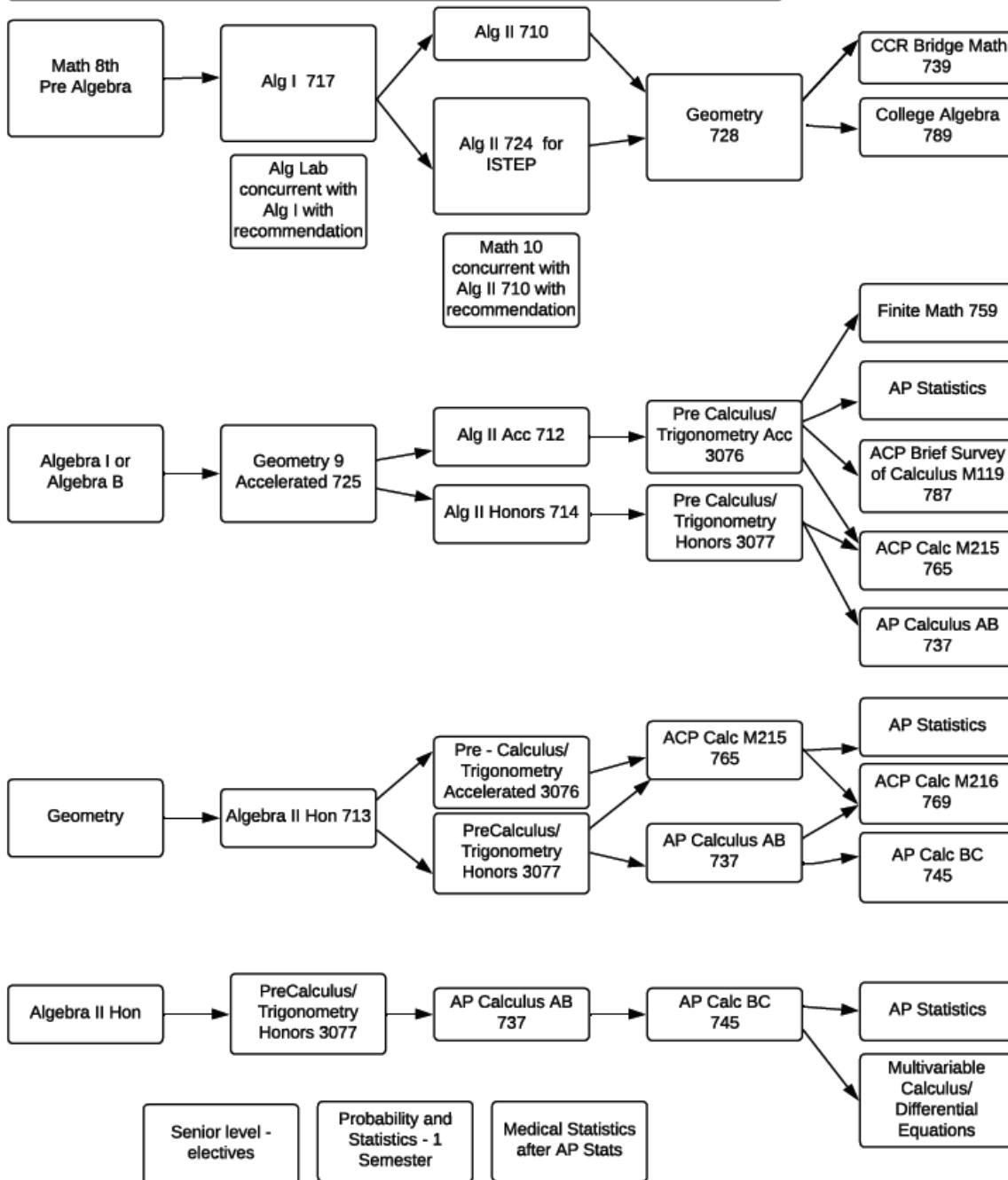
around you. Students will creatively address real-world issues and concerns while using the same processes and tools as artists, writers, computer scientists, and engineers to bring ideas to life.



# 2020-2021 Penn High School Math Sequences



"Students are encouraged to take 4 years of math, although 3 years (Alg. I, Geom., Alg. II) are required for graduation with a Core 40. Students must take a quantitative reasoning course during the senior year. For students pursuing an Academic Honors diploma, 4 years of math are required."



## **MATHEMATICS**

**Penn# 0718**



**ALGEBRA I**

**Semesters: 2 Credits: 2**

**Grade Level: 10-12**

**Weight: 4.0 DOE# 2520**

**Course Description:**

The Mathematics standards for Algebra I are made up of 5 strands: Real Numbers and Expressions; Functions; Linear Equations, Inequalities, and Functions; Systems of Equations and Inequalities; Quadratic and Exponential Equations and Functions; and Data Analysis and Statistics.

**Penn# 0728**



**GEOMETRY**

**Semesters: 2 Credits: 2**

**Grade Level: 11-12**

**Prerequisite: Algebra II (0724)**

**Weight: 4.0 DOE# 2532**

**Course Description:**

The Mathematics standards for Geometry are made up of 5 strands: Logic and Proofs; Points, Lines, Angles, and Planes; Triangles; Quadrilaterals and Other Polygons; Circles; Transformations; and Three-dimensional Solids. Algebra skills will be reviewed and remediated in this course.

**Penn# 0724**



**ALGEBRA II**

**Semesters: 2 Credits: 2**

**Grade Level: 10-12**

**Prerequisite: Algebra I**

**Weight: 4.0 DOE# 2522**

**Course Description:**

The Mathematics standards for Algebra II are made up of 5 strands: Complex Numbers and Expressions; Functions; Systems of Equations; Quadratic Equations and Functions; Exponential & Logarithmic Equations and Functions; Polynomial, Rational, and Other Equations and Functions; and Data Analysis, Statistics, and Probability. Students who complete this course will enroll in Geometry 728.

A scientific calculator is required and students will gain experience using the graphing calculator.

gain experience using a graphing calculator.

**Penn# 0714**



**ALGEBRA II HONORS**

**Semesters: 2 Credits: 2**

**Grade Level: 10-12**

**Prerequisite: Algebra I and Geometry Accelerated**

**Weight: 4.0 DOE# 2522**

**Course Description:**

The Mathematics standards for Algebra II are made up of 5 strands: Complex Numbers and Expressions; Functions; Systems of Equations; Quadratic Equations and Functions; Exponential & Logarithmic Equations and Functions; Polynomial, Rational, and Other Equations and Functions; and Data Analysis, Statistics, and Probability. This course is for students with superior performance in math. Compared to Algebra II, the pace of this course is accelerated and topics are covered in greater depth. Students will gain experience using the graphing calculator. A scientific calculator is required and a graphing calculator is highly recommended.

**Penn# 0710**

**ANALYTICAL ALGEBRA II**

**Semesters: 2 Credits: 2**

**Grade Level: 10-12**

**Prerequisite: Algebra I**

**Weight: 4.0 DOE# 2524**

**Course Description:**

This course is designed for students who do not have an Algebra II credit and are planning on earning a Core 40 Diploma. Analytical Algebra II should focus on the application of mathematics in various disciplines including business, finance, science, career and technical education, and social sciences. This course covers most of the traditional Algebra II standards, but the focus is on the application of algebraic concepts rather than theoretical concepts. This course is for those students who may plan to go to college but not necessarily majoring in a heavy Math-related field.

\*Parents must sign a form for students to be enrolled in this course that will inform the parents that the enrollment in Analytical Algebra II might affect the student's acceptance into particular postsecondary programs or institutions.

### Penn# 0789

#### COLLEGE ALGEBRA

**Semesters: 2 Credits: 2**

**Grade Level: 11-12**

**3 College Credits can be earned**

**Prerequisites: Algebra II and Geometry**

**Weight: 4.5 DOE# 2564**

**IVY TECH- MATH 136 College Algebra**

#### **Course Description:**

This course is designed for students that need additional work in Algebra before attempting Pre-calculus. College Algebra – Ivy Tech 136 presents an in-depth study of functions, quadratic, polynomial, radical, and rational equations, radicals, complex numbers, systems of equations, rational fractions and exponential and logarithmic functions. Ivy Tech Credit may be earned. Topical areas of study include: Quadratic, polynomial, rational

and radical equations, Complex Numbers, Exponential and logarithmic functions, Radicals and rational expressions, Graphs of equations and functions, Variation, and Systems of equations.

logarithmic functions. A scientific calculator is required and a graphing calculator is highly recommended.

### Penn# 0759

#### FINITE MATH

**Semesters: 2 Credits: 2**

**Grade Level: 12**

**IVY TECH- MATH 135 Finite Math**

**3 College Credits can be earned**

**Prerequisite: Algebra II and Geometry or Pre-Calculus**

**Weight: 4.5 DOE# 2530**

#### **Course Description:**

This course is designed for college bound students. Topics include solving and graphing linear equations and inequalities, elementary set theory, matrices and their applications, linear programming, and elementary probability. This is a standard finite mathematics course.

### Penn# 0732

#### TRIGONOMETRY

**Semesters: 1 Credits: 1**

**Grade Level: 10-12**

**Prerequisite: Algebra II and Geometry**

**Weight: 4.0 DOE# 2566**

#### **Course Description:**

**Also register for 0753.** Trigonometric relationships will be developed from an understanding of the circular function and their properties and graphs. Inverse trig functions, trig equations and identities, the Law of Sines and Cosines and applications of trig functions will be studied. The course also includes arithmetic and geometric sequences.

### Penn# 0753

#### PRE-CALCULUS

**Semesters: 1 Credits: 1**

**Grade Level: 10-12**

**Prerequisite: Algebra II and Geometry**

**Weight: 4.0 DOE# 2564**

#### **Course Description:**

**Also register for 0732.** This course extends the foundations of algebra and functions developed in previous courses to new functions and to a more advanced level. Pre-Calculus is made up of the Following strands: Complex Numbers, Functions, Quadratic, Polynomial and Rational Equations and Functions, Exponential and Logarithmic Equations and Functions. This course is designed to provide students with a strong foundation for Calculus. This

### Penn# 0735

#### PRE-CALCULUS ACCELERATED

**Semesters: 1 Credits: 1**

**Grade Level: 10-12**

**Prerequisite: Algebra II Accelerated OR Honors**

**Weight: 4.0 DOE# 2564**

#### **Course Description:**

**Also register for 0736.** Pre-Calculus extends the foundation of algebra and functions developed in previous courses to new functions and to a more advanced level. Pre-Calculus is made up of the Following strands: Complex Numbers, Functions, Quadratic, Polynomial and Rational Equations and Functions, Exponential and Logarithmic Equations and Functions. This course is designed to provide students with a strong foundation for Calculus. This

course is preparing the students for ACP Calculus 215. A scientific calculator is required and a graphing calculator is highly recommended.

**Penn# 0736**



### **TRIGONOMETRY ACCELERATED**

**Semesters: 1 Credits: 1**

**Grade Level: 10-12**

**Prerequisite: Algebra II Accelerated**

**OR Honors**

**Weight: 4.0 DOE# 2566**

**Course Description:**

**Also register for 0735** Trigonometry Accelerated provides students with the skills and understandings that are necessary for advanced manipulation of angles and measurement. Trigonometry consists of: Conics, Unit Circle, Periodic Functions, Identities, Polar Coordinates and Vectors. Trigonometry provides the foundation for common periodic functions that are encountered nearly all STEM disciplines. This course is preparing the students for ACP Calculus 215.

**Penn# 0733**



### **PRE-CALCULUS HONORS**

**Semesters: 1 Credits: 1**

**Grade Level: 10-12**

**Prerequisite: Algebra II Honors**

**Weight: 4.0 DOE# 2564**

**Course Description:**

**Also Register for 0738.** Pre-Calculus is an Honors course that extends the foundation of algebra and functions developed in previous courses to new functions and to a more advanced level. Pre-Calculus is made up of the following strands: Complex Numbers, Functions, Quadratic, Polynomial and Rational Equations and Functions, Exponential and Logarithmic Equations and Functions. This course is

designed to provide students with a strong foundation for Calculus. This course is preparing the students for AP® Calculus AB and for students who expect math to be a major component of their college courses. A scientific calculator is required and a graphing calculator is highly recommended.

**Penn# 0738**



### **TRIGONOMETRY HONORS**

**Semesters: 1 Credits: 1**

**Grade Level: 9-12**

**Prerequisite: Algebra II Honors**

**Weight: 4.0 DOE# 2566**

**Course Description:**

**Also register for 0733.** Trigonometry is an Honors course that provides students with the skills and understandings that are necessary for advanced manipulation of angles and measurement. Trigonometry consists of: Conics, Unit Circle, Periodic Functions, Identities, Polar Coordinates and Vectors. Trigonometry provides the foundation for common periodic functions that are encountered nearly all STEM disciplines. This course is preparing the students for AP® Calculus AB.

**Penn# 0787**



### **BRIEF SURVEY OF CALCULUS I**

**Semesters: 2 Credits: 2**

**Grade Level: 11-12**

**Prerequisite: Pre-Calculus AND meet IU admission requirements**

**Weight: 5.0 DOE# 2527**

**IU- MATH-M 119 Brief Survey of Calculus I**

**College Credits: 3**

**Course Description:**

This course is an in-depth study of functions, graphs, limits, continuity, derivatives, and integrals of those functions and their applications. It provides rigorous instruction in mathematical modeling concepts and skills presented in the context of real-world applications. It may be taken for college credit for students pursuing a liberal arts program in college. *NOTE: In order to receive weighted credit on transcripts, students must successfully complete both semesters of the course and take the I.U. final exam.* An hourly fee for 3 credits will be assessed by Indiana University for students opting for college credit.

**Penn# 0765**



### **ACP CALCULUS I**

**Semesters: 2 Credits: 2**

**Grade Level: 11-12**

**Prerequisite: Pre-Calculus**

**Accelerated OR Honors AND meet IU admission requirements**

**Weight: 5.0 DOE# 2527**

**IU- MATH-M 215 Calculus I**

**College Credits: 5**

**Course Description:**

This is a college Calculus course, which is comparable to the length and difficulty of a first semester college calculus course. It is an in-depth study of functions, limits, graphs, continuity, derivatives, and integrals of those functions and their applications. Students who apply, qualify and successfully complete the course will receive five Indiana University credits that may be transferable to other colleges. It is required that each student has a graphing calculator. *NOTE: In order to receive weighted credit on transcripts, students must successfully complete both semesters*

of the course and take the I.U. final exam. An hourly fee for 5 credits will be assessed by Indiana University for students opting for college credit.

**Penn# 0769** 

### **ACP CALCULUS II**

**Semesters: 2 Credits: 2**

**Grade Level: 11-12**

**Prerequisite: ACP Calculus M215 OR AP® Calculus AB AND meet IU admission requirements**

**Weight: 5.0 DOE# 2544**

**IU- MATH-M 216 Calculus II**

**College Credits: 5**

#### **Course Description:**

This course is an in-depth study of advanced techniques in integration, volumes of solids of revolution, sequences and series. Students who qualify and successfully complete the course will receive five Indiana University credits that may be transferable to other colleges. It is required that each student has a graphing calculator. *NOTE: In order to receive weighted credit on transcripts, students must successfully complete both semesters of the course and take the I.U. final exam.* An hourly fee for 5 credits will be assessed by Indiana University for students opting for college credit.

**Penn# 0737** 

### **AP® CALCULUS AB**

**Semesters: 2 Credits: 2**

**Grade Level: 10-12**

**Prerequisite: Pre-Calculus Honors**

**Weight: 5.0 DOE# 2562**

#### **Course Description:**

This is a college Calculus course. It is designed for students who have demonstrated a superior performance in math. The pace of this course is

more accelerated and the content depth is greater than in Honors courses. The course includes advanced integration and differentiation techniques. The use of a graphing calculator is central to the course. Students should be prepared to do a self-paced intensive Pre-Calculus review during the summer prior to entering the course. It is required that each student has a graphing calculator. A student may gain college credit with a successful score on the AP® exam. *NOTE: In order to receive weighted credit and the Advanced Placement® designation on transcripts, students must successfully complete both semesters of the Advanced Placement® course and take the Advanced Placement® examination in that course.*

Advanced Placement® examination in that course.

**Penn# 0747/0749** 

### **MULTIVARIABLE CALCULUS & DIFFERENTIAL EQUATIONS**

**Semesters: 2 Credits: 2**

**Grade Level: 12**

**Prerequisite: AP® Calculus BC**

**Ball State- MATH 267 Multivariable Calculus / MATH 374 Differential Equations**

**College Credits: 6**

**Weight: 4.5 DOE# 2544**

#### **Course Description:**

Topics include three-dimensional vector calculus, Gauss's theorem, Green's theorem, and Stoke's theorem. Introduction to nth-order ordinary differential equations, equations of order one, elementary applications, linear equations with constant coefficients, nonhomogeneous equations, undetermined coefficients, variation of parameters, linear systems of equations, and the Laplace transform. This course includes the use of graphing calculators and computer software. This course is offered as distance learning through Ball State University. Students will participate during the school day. The course requires special registration through the Counseling Office and the Math Instructional Leader. There will be a fee payable to Ball State University for Dual Credit.

**Penn# 0771 OR 0772** 

### **PROBABILITY AND STATISTICS**

**Semesters: 1 Credits: 1**

**Grade Level: 11-12**

**Prerequisite: Algebra II and Geometry**

**Weight: 4.0   DOE# 2546****Course Description:**

This course includes the concepts and skills needed to apply statistical techniques in the decision-making process. Students will learn the basics about populations and samples and how to design, implement, collect and interpret a study, and learn the basics of hypothesis testing. The course is designed around in-class use of graphing calculators in addition to simple hand calculations.

**Penn# 0767****AP® STATISTICS****Semesters: 2   Credits: 2****Grade Level: 10-12****Prerequisite: Algebra II and Geometry****Weight: 5.0   DOE# 2570****Course Description:**

This course is for mathematically able students who can work at a fast pace and wish to complete studies in high school, equivalent to a one-semester, non-calculus based college course in introductory statistics. It is recommended for juniors or seniors who will be exposed to four broad conceptual themes: exploring data by observing patterns and departures from patterns; planning a study to decide what and how to measure; producing models using probability and simulation; and using statistical inference to confirm models. The use of computer software and graphing calculator technology will be an integral part of the course. It is required that each student has a graphing calculator with statistical capabilities (the TI-83 or TI-84 is recommended. A student may gain college credit with a successful score on the AP exam.

**Penn# 0775****ALGEBRA I LAB****Semesters: 2   Credits: 2****Grade Level: 9****Prerequisites: Students are placed in the course based on standardized test scores (NWEA, or ISTEP) and/or teacher recommendation****Weight: 4.0   DOE# 2516.****Course Description:**

Algebra I Lab is a mathematics support course for Algebra I. 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 I Lab align with the critical areas of Algebra I. Relationships between Quantities and Reasoning with Equations; Linear and Exponential Relationships; Descriptive Statistics; Expressions and Equations; and Quadratic Functions and Modeling. However, whereas Algebra I contains exclusively grade-level content, Algebra I Lab combines standards from high school courses with foundational standards from the middle grades. Algebra I Lab is designed as a support course for Algebra I. As such, a student taking Algebra I Lab must also be enrolled in Algebra I during the same academic year.

**Penn# 0773****MATH 10****Semesters: 2   Credits: 2****Grade Level: 10-12****Prerequisite: Must have attempted Algebra 1****Weight: 4.0   DOE# 2531****Course Description:**

Math 10 is a two-semester course designed to reinforce and elevate the Algebra 1 and 7th and 8th grade

geometry knowledge and skills necessary for students to successfully complete high school mathematics courses beyond Algebra 1 and essentials for passing the state's graduation qualifying exam in mathematics. Enrollment will be contingent upon diagnostic results of performance in Algebra I and/or mathematics competency assessments. The standards for this course are aligned to the state standards that students need to master for success with the state's graduation qualifying exam in mathematics and the next level math courses.

Counts as a Mathematics Course for the General Diploma only or as an Elective for the Core 40, Core 40 with Academic Honors and Core 40 with Technical Honors diplomas.

**Penn# 0739****CCR BRIDGE: MATH****Semesters: 2   Credits: 2****Grade Level: 12****Prerequisite: Algebra II and Geometry****Weight: 4.0   DOE# 2595****Course Description:**

The CCR Bridge: Math Ready course will include and reinforce the Algebra 1, Geometry, Algebra 2 and Statistics skills. This course emphasizes understanding of math concepts rather than just memorizing procedures. Math Ready students learn the context behind the procedure: why to use a certain formula or method to solve a problem, for example. This equips them with higher-order thinking skills in order to apply math skills, functions and concepts in different situations. The content of this course is designed to enhance students' math skills so that they are ready for college-level math assignments.

Counts as a Mathematics Course for all diplomas.

**Penn# 1790**

**MEDICAL STATISTICS**

**Semesters: 2 Credits: 2**

**Grade Level: 12**

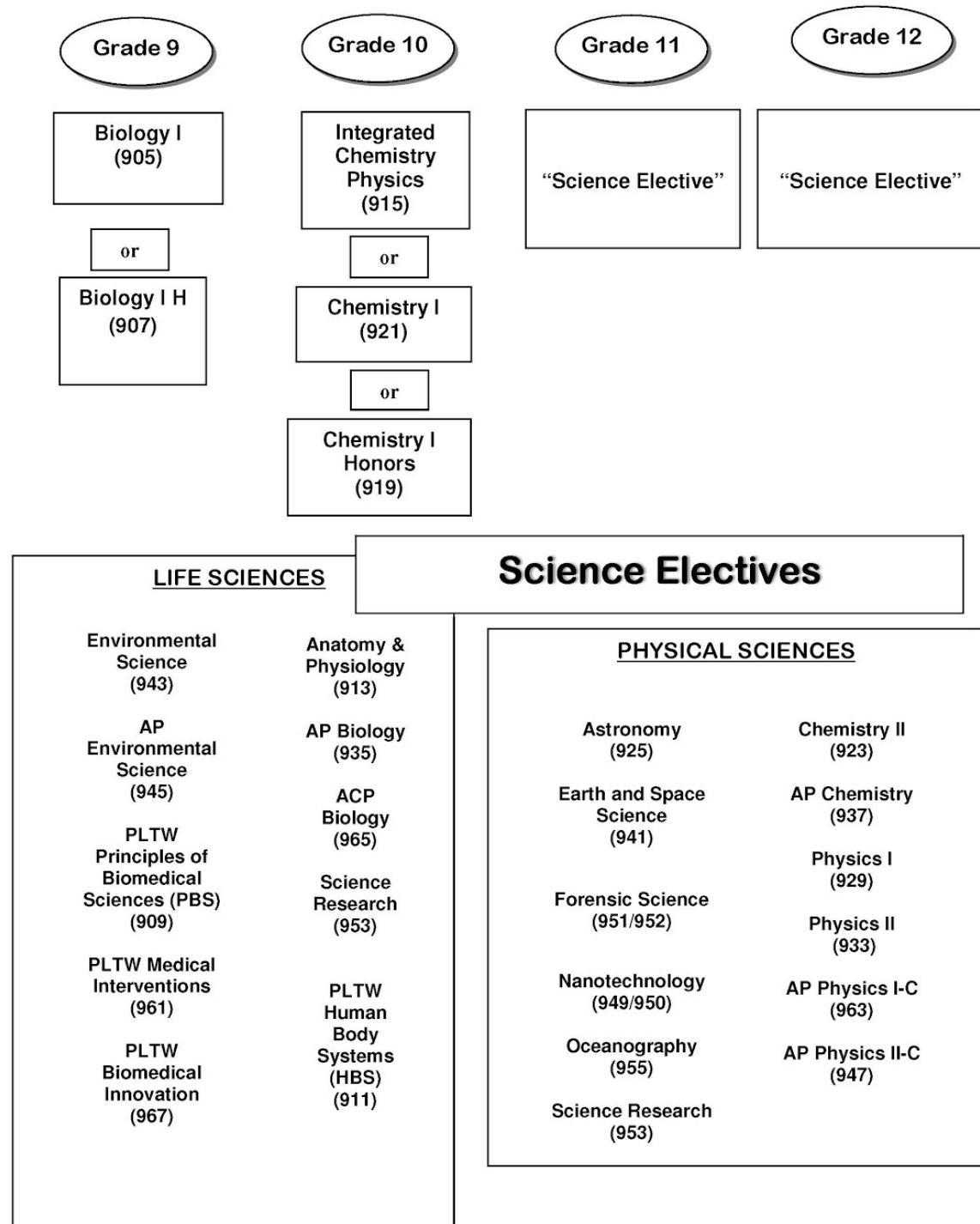
**Prerequisite: AP® Statistics**

**Weight: 4.5 DOE# 2543**

**Course Description:**

This is a second year course that applies statistics into the field of science and medicine. The topics that are covered are regression analysis, ANOVA, nonparametric, Chi-Square, and statistical processes. In addition to these topics, students will learn specific concepts that pertain to medical research that will help any student wanting to study a science field or medicine. Students will also learn the basics of abnormal psychology, medical terminology, and read autobiographies that support specific illnesses that are studied during class. Students must have a graphing calculator for this class. In order to receive weighted credit for this class, students must successfully complete the STEM data analysis project given to them each semester.

# SCIENCE



## SCIENCE

**Penn# 0935**  

### **AP® BIOLOGY**

**Semesters: 2 Credits: 2**

**Grade Level: 10-12**

**Prerequisites: Biology I and Chemistry I (or concurrent enrollment in Chemistry I)**

**Weight: 5.0 DOE# 3020**

#### **Course Description:**

Advanced Placement® Biology is a challenging college-level course which follows College Board Entrance Examination guidelines for Advanced Placement® Biology. The AP® Biology course and the AP® Biology Examination stress biological facts, the synthesis of those facts into concepts, themes and science processes. The major areas of study are evolution, energy and systems. Students taking AP® Biology engage in college-level laboratory work.

**Penn# 0965**  

### **ACP BIOLOGY**

**Semesters: 2 Credits: 2**

**Grade Level: 11-12**

**Prerequisite: Biology I AND**

**Chemistry I AND meet IU admission requirements**

**Weight: 5.0 DOE# 3090**

**IU- BIOL-L 100 Humans and the Biological World**

**College Credits: 3**

#### **Course Description:**

This college-level course emphasizes how biology has both

personal and global implications in human lives. It examines central themes of biology including biochemistry, genetics, evolution, ecology, and human physiology. Students taking this course will investigate biological concepts while developing critical thinking and problem solving skills. This course meets Indiana University biological departmental standards. To earn five college credits a student must enroll following the IU-ACP application procedure, make a necessary tuition payment, and earn a C or better in the class. This course fulfills a science requirement for Core 40, Core 40 with Academic Honors and Core 40 with Technical Honors.

medical case studies, 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. All students must participate in the laboratory dissections. Students pursuing a medical career in college are highly recommended to take two years of high school chemistry. Students can take anatomy and a second year of chemistry in the same year. This course fulfills a science requirement for all diplomas.

**Penn# 0915**  

### **INTEGRATED CHEMISTRY-PHYSICS**

**Semesters: 2 Credits: 2**

**Grade Level: 10**

**Prerequisite: Algebra I (or concurrent enrollment in Algebra I).**

**Biology I is recommended.**

**Weight: 4.0 DOE# 3108**

#### **Course Description:**

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

**Penn# 0913** 

### **ANATOMY AND PHYSIOLOGY**

**Semesters: 2 Credits: 2**

**Grade Level: 11-12**

**Prerequisite: Biology I and**

**Chemistry I**

**Weight: 4.0 DOE# 5276**

#### **Course Description:**

Course Description: The course is intended primarily for students interested in medical-related careers. Students will investigate concepts related to Health Science, with emphasis on interdependence of systems and contributions of each system to the maintenance of a healthy body. The course introduces students to the cell, and covers tissues, integumentary, skeletal, muscular, and nervous systems as an integrated unit. Through extensive anatomy understanding, laboratory dissections, modeling and diagramming for understanding, and researching

Chemistry I and Physics I. This course fulfills a science requirement for Core 40, Core 40 with Academic Honors and Core 40 with Technical Honors.

**Penn# 0921**  

## **CHEMISTRY I**

**Semesters: 2 Credits: 2**

**Grade Level: 10-12**

**Prerequisites: Biology I and**

**Algebra I**

**Weight: 4.0 DOE# 3064**

### **Course Description:**

Chemistry lets you understand the world around you. It helps you to understand what you eat, what you wear, and what you observe. It is often called the central science as it connects many other sciences. In this course you will study matter, energy, counting and measuring atoms and their compounds, atomic structure and chemical reactions. The concepts will be presented through laboratory experiments that will involve making observations and predictions, collecting data, analyzing data, and communicating results. Problem solving skills, critical thinking and multiple representations of knowledge will be stressed. Upon successful completion of this course and if you are planning a career in a health, medical or STEM field, you are strongly encouraged to take Chemistry II during your junior or senior year. This course fulfills a science requirement for Core 40, Core 40 with Academic Honors and Core 40 with Technical Honors.

**Penn# 0919**  

## **CHEMISTRY I HONORS**

**Semesters: 2 Credits: 2**

**Grade Level: 10-12**

**Prerequisites: Biology I AND an "A" in Algebra**

**Weight: 4.0 DOE# 3064**

### **Course Description:**

Chemistry lets you understand the world around you. It helps you to understand what you eat, what you wear, and what you observe. It is often called the central science as it connects many other sciences. Chemistry I Honors is designed for the college-bound student interested in a science career (medical related, engineering, etc.), and/or who has a high interest in science. The honors level of chemistry has a much deeper application of mathematics and the pace is much faster than Chemistry I. You will often be expected to independently apply and extend your knowledge to new situations. In this course you will study matter, energy, counting and measuring atoms and their compounds, atomic structure, chemical reactions and bonding. The concepts will be presented through laboratory experiments that will involve making observations and predictions, collecting data, analyzing data, and communicating results. Problem solving skills, critical thinking and multiple representations of knowledge will be stressed. Upon successful completion of this course you will be well prepared and encouraged to take Chemistry II and /or AP® Chemistry during your junior or senior year. This course fulfills a science requirement for Core 40, Core 40 with Academic Honors and Core 40 with Technical Honors.

**Penn# 0923**  

## **CHEMISTRY II**

**Semesters: 2 Credits: 2**

**Grade Level: 11-12**

**Prerequisite: Chemistry I**

**Weight: 4.0 DOE# 3066**

### **Course Description:**

Chemistry II expands and deepens the understanding of concepts studied in Chemistry I. Additional emphasis will be placed on molecular structure, thermodynamics, acid-base theories, hydrolysis, kinetics, equilibrium, and redox reactions. Experiments requiring quantitative calculations and formal written reports will be performed in the laboratory. It differs from AP® Chemistry in that not all AP® Chemistry topics will be studied, or will not be studied at the depth at which they would be assessed on the AP® exam. This course fulfills a science requirement for Core 40, Core 40 with Academic Honors and Core 40 with Technical Honors. Students taking regular Chemistry I are required to take Chemistry II before taking AP® Chemistry.

**Penn# 0937**  

## **AP® CHEMISTRY**

**Semesters: 2 Credits: 2**

**Grade Level: 11-12**

**Prerequisites: Chemistry I and Pre-Calculus (or pre-Calc concurrently)**

**Weight: 5.0 DOE# 3060**

### **Course Description:**

Chemistry, Advanced Placement® is a course which follows College Board entrance examination guidelines for Advanced Placement® chemistry. Topics included are atomic and molecular structure, equilibria, oxidation-reduction, thermochemistry, electrochemistry, kinetics and acid-base chemistry. This course also includes extensive college-level

laboratory work stressing data acquisition and interpretation. Students are required to keep a laboratory manual. Students prepare for and are required to take the AP® Chemistry Exam given in May. To succeed in this course, students should be highly motivated, organized, and have good study habits. College credit will be earned upon successful completion of the AP® Exam. Dual credit through Ivy Tech is also available at no cost. Check specific colleges and universities for their policies. There is a short summer assignment over basic Chemistry I principles. This course fulfills a science requirement for Core 40, Core 40 with Academic Honors and Core 40 with Technical Honors.

**Penn# 0925**



## **ASTRONOMY**

**Semesters: 2 Credits: 2**

**Grade Level: 10-12**

**Prerequisite: Geometry**

**Weight: 4.0 DOE# 3092**

### **Course Description:**

Astronomy provides for the in-depth investigation of astronomy. The course is a comprehensive, sequential, practical application course that utilizes the P-H-M Digital Video Theater (formerly the Planetarium) in the study of the: Celestial Sphere; Celestial Coordinates; Constellations; Solar System; Moon and Moon Phases; Eclipses; Sun as a star; Theories on the origin of our Solar System, Milky Way Galaxy, and Universe; Scale Models of: Earth-Sun, Solar System to our nearest star Alpha Centauri, and our Galaxy; Stellar Astronomy (all the things beyond the edge of our Solar System); Lives and Deaths of Stars; Spectroscopy; H&R Diagram; Cosmic Time Scale; Time Travel (Relativity);

Life in the universe; Interstellar Space Travel; and the History of Manned Space Flight. This course fulfills a science requirement for Core 40, Core 40 with Academic Honors and Core 40 with Technical Honors.

**Penn# 0943**



## **ENVIRONMENTAL SCIENCE**

**Semesters: 2 Credits: 2**

**Grade Level: 11-12**

**Prerequisite: ICP OR**

**Chemistry I**

**Weight: 4.0 DOE# 3010**

### **Course Description:**

Environmental Science introduces fundamental environmental and ecological issues. Students will do laboratory investigations as well as participate in group & class discussions to debate pertinent topics. Many laboratory activities take place outside will require walking to an outdoor laboratory. Outside reading and research may be required as well as reading from the text. Students will do a significant amount of writing to demonstrate their understanding. Some concepts that will be covered include: Ecology, The Atmosphere, Conservation, Water, and Energy. The goal of the course is to prepare students to be literate citizens capable of using their knowledge of environmental science to make decisions to solve problems and make personal, social and ethical decisions that will have consequences for theirs and future generations. This course fulfills a science requirement for Core 40, Core 40 with Academic Honors and Core 40 with Technical Honors.

**Penn# 0945**



## **AP® ENVIRONMENTAL SCIENCE**

**Semesters: 2 Credits: 2**

**Grade Level: 10-12**

**Prerequisites: Chemistry OR**

**Earth/Space Science**

**Weight: 5.0 DOE# 3012**

### **Course Description:**

The AP® Environmental Science course is a more advanced study of topics in environmental science. The goal of the AP® Environmental Science course is to provide students with the scientific principles, concepts, and methodologies required to understand the interrelationships of the natural world, to identify and analyze environmental problems both natural and human-made, to evaluate the relative risks associated with these problems, and to examine alternative solutions for resolving and/or preventing them. Considerable emphasis is placed on outdoor field investigations as well as on indoor laboratory study. Students are required to take the AP® Environmental Science Examination upon completion of the course in order to receive the weighted grade. It is necessary to have reading and study skills at a high enough level to read and comprehend college-level text and write college level papers and reports. This course fulfills a science requirement for Core 40, Core 40 with Academic Honors and Core 40 with Technical Honors.

**Penn# 0929**



## **PHYSICS I**

**Semesters: 2 Credits: 2**

**Grade Level: 11-12**

**Prerequisites: Chemistry I AND**

**Algebra II (or concurrent enrollment in Algebra II)**

**Weight: 4.0 DOE# 3084**

### **Course Description:**

Physics is the study of the behavior and interactions of matter and energy in space and time. Physics I is designed particularly for students intending to pursue university studies in any of the fields of mathematics, science, or engineering (including architecture.) This course is the content equivalent of AP®-C Mechanics, but does not include the calculus. Topics include kinematics, kinetics, gravitation, circular motion, conservation of energy and momentum, rotational dynamics, statics, and fluid mechanics. Students are challenged with more complex problems in each of these areas. Approximately 33% of the course time is laboratory related with a particular emphasis on error analysis and the explanation of anomalous behavior. The depth of the laboratory work frequently involves reconsideration of the experimental results over a period of weeks or months. Emphasis is placed on problem-solving, laboratory techniques, and applications of interactive software for data acquisition, processing and modeling. Enrollment in the Junior year is encouraged, so that students may elect to enroll in Physics II or AP® E&M in their Senior year. This course fulfills a science requirement for Core 40, Core 40 with Academic Honors and Core 40 with Technical Honors.

**Penn# 0963**  

**AP® PHYSICS I – C: MECHANICS**  
**Semesters: 2 Credits: 2**  
**Grade Level: 11-12**  
**Prerequisites: Chemistry I AND Calculus I (or concurrent enrollment in Calculus I)**  
**Weight: 5.0 DOE# 3088**  
**Course Description:**

Physics I AP® -C Mechanics is an advanced and very rigorous first level of physics designed particularly for students intending to pursue university studies in any of the fields of mathematics, science, or engineering. This course is Calculus based and uses differential and integral calculus. This physics course utilizes guided inquiry and student-centered learning techniques to foster the development of critical thinking skills. Students will be challenged with more complex problems in all topic areas, and be given opportunities to further develop creative problem solving skills, data analysis procedures, and experimental design techniques. Emphasis is on problem solving techniques, laboratory techniques, and applications of interactive software for data acquisition and processing. They will also develop skills in the application of interactive software and the use of state-of-the-art laboratory instruments and techniques. Topics include; Kinematics, Projectile motion, Forces, Energy, Momentum, Rotational Motion, and Oscillations. This course fulfills a science requirement for Core 40, Core 40 with Academic Honors and Core 40 with Technical Honors.

**Penn# 0933**  

**PHYSICS II**  
**Semesters: 2 Credits: 2**  
**Grade Level: 12**  
**Prerequisite: Physics I AND Pre-Calculus (or concurrent enrollment in Pre-calculus)**  
**Weight: 4.0 DOE# 3086**  
**Course Description:**

Physics II is an advanced level of physics designed particularly for students intending to pursue university studies in any of the fields of

mathematics, science, or engineering. This course is the second half of the algebra based physics sequence. This physics course utilizes guided inquiry and student-centered learning techniques to foster the development of critical thinking skills. Students will be challenged with more complex problems in all topic areas, and be given opportunities to further develop creative problem solving skills, data analysis procedures, and experimental design techniques. Emphasis is on problem solving techniques, laboratory techniques, and applications of interactive software for data acquisition and processing. They will also develop skills in the application of interactive software and the use of state-of-the-art laboratory instruments and techniques. Topics include oscillations, electrostatics, current, DC circuits, magnetism, electromagnetism, thermodynamics, optics, and modern physics.

This course fulfills a science requirement for Core 40, Core 40 with Academic Honors and Core 40 with Technical Honors.

**Penn# 0969**  

**AP® PHYSICS I: ALGEBRA BASED**

**2 Semesters 2 Credits**

**Grades: 10-12**

**Weight: 5.0 DOE# 3080**

**Prerequisites: Algebra II & Chemistry**

**IVY TECH - PHYS 101**

**This is a Quantitative Reasoning course**

**COURSE DESCRIPTION:**

AP® Physics1 is a course based on the content established and copyrighted by the College Board. The course is not intended to be

used as a dual credit course. AP® Physics 1: Algebra based is equivalent to a first-semester college course in algebra-based physics. The course covers Newtonian mechanics (including rotational dynamics and angular momentum); work, energy, and power; mechanical waves and sound. It will also introduce electric circuits.

**Penn# 0947** 

**AP® PHYSICS II – C: ELECTRICITY & MAGNETISM**

**Semesters: 2 Credits: 2**

**Grade Level: 12**

**Prerequisites: AP® Physics I OR Physics I with concurrent enrollment in Calculus**

**Weight: 5.0 DOE# 3088**

**Course Description:**

AP® E&M is an advanced level of physics designed particularly for students intending to pursue university studies in any of the fields of mathematics, science, or engineering. This course is Calculus based and a good understanding of differential, integral, and vector calculus is required. This physics course utilizes guided inquiry and student-centered learning techniques to foster the development of critical thinking skills. Students will be challenged with more complex problems in all topic areas, and be given opportunities to further develop creative problem solving skills, data analysis procedures, and experimental design techniques. Emphasis is on problem solving techniques, laboratory techniques, and applications of interactive software for data acquisition and processing. They will also develop skills in the application of interactive software and the use of

state-of-the-art laboratory instruments and techniques. Topics include oscillations, electrostatics, current, DC circuits, magnetism, electromagnetism, and AC circuits. This course is equivalent to a one semester, introductory Electricity & Magnetism college course. This course fulfills a science requirement for Core 40, Core 40 with Academic Honors and Core 40 with Technical Honors.

**Penn# 0941** 

**EARTH AND SPACE SCIENCE**

**Semesters: 2 Credits: 2**

**Grade Level: 11-12**

**Prerequisite: ICP OR Chemistry I (or concurrent enrollment in Chemistry I)**

**Weight: 4.0 DOE# 3044**

**Course Description:**

Earth and Space science is a science elective for juniors and seniors. Topics include: gems/minerals, earthquakes/plate tectonics, fossil/dinosaurs, space/astronomy, and atmospheric science/weather prediction. Students have opportunities to gain an understanding of the history of the development of the earth and space sciences, to explore the uses of knowledge of the earth and its environment in various careers, and to investigate problems related to personal needs and social issues. This course fulfills a science requirement for Core 40, Core 40 with Academic Honors and Core 40 with Technical Honors.

**Penn# 0951 OR 0952** 

**FORENSIC SCIENCE**

**Semesters: 1 Credits: 1**

**Grade Level: 10-12**

**Prerequisites: ICP OR Chemistry (or concurrent enrollment in Chemistry)**

**Weight: 4.0 DOE# 3092**

**Course Description:**

Forensic science is a laboratory-based course that integrates aspects of biology, chemistry and physics to interpret physical evidence from crime scenes. In this class students will learn how physical evidence is collected and handled and perform laboratory investigations to analyze the evidence. The final project will involve collecting and analyzing evidence from a mock crime scene to solve a case. In the process, students will develop and improve their analytical and problem solving skills, which are imperative to any profession. This course fulfills a science requirement for Core 40, Core 40 with Academic Honors and Core 40 with Technical Honors.

**Penn# 0955** 

**OCEANOGRAPHY**

**Semesters: 2 Credits: 2**

**Grade Level: 11-12**

**Prerequisite: ICP OR Chemistry I**

**Weight: 4.0 DOE# 3092**

**Course Description:**

Oceanography is a Core 40 science elective for juniors and seniors. Topics include: geology, geography, earthquakes/plate tectonics, oceanic weather/climate, coral reefs, history of our planet, and deep-water exploration. Students will have opportunities to gain an understanding of the history of our oceans, to research the oceanic life-forms, and research problems related to personal needs, social issues, and both human and economic decisions that affect our planet. The goal of this class is to have students recognize the powerful impact of the oceans and how they affect our daily

lives. Students will become equipped with the knowledge and skills they need to make educated decisions in the future about our oceanic planet. This course fulfills a science requirement for Core 40, Core 40 with Academic Honors and Core 40 with Technical Honors.

## **BIOMEDICAL SCIENCE**

**Penn# 0909**



**PLTW PRINCIPLES OF BIOMEDICAL SCIENCES (PBS)**

**Semesters: 2 Credits: 2**

**Grade Level: 9-12**

**Prerequisite: Biology I (or current enrollment in Biology I)**

**Counts as science course**

**Weight: 4.5 DOE# 5218**

**Course Description:**

Principles of Biomedical Sciences is a hands-on project based Project Lead the Way (PLTW) course. Students investigate various health conditions including heart disease, diabetes, sickle-cell disease, hyper-cholesterolemia, and infectious diseases. The activities and projects introduce students to human physiology, medicine, and research processes. This course provides an overview of all the courses in the Biomedical Sciences program and lays the scientific foundation for subsequent courses. This course is designed for 9th - 12th grade students. College credit is offered if students obtain a satisfactory score on the EoC and a satisfactory grade in the course. This course fulfills a science requirement for Core 40, Core 40 with Academic Honors and Core 40 with Technical Honors.

**Penn# 0911**



**PLTW HUMAN BODY SYSTEMS**

**(HBS)**

**Semesters: 2 Credits: 2**

**Grade Level: 10-12**

**Prerequisite: PBS**

**Counts as science course**

**Weight: 4.5 DOE# 5216**

**Course Description:**

Human Body systems is a hands-on project based Project Lead the Way (PLTW) course. Students examine the interactions of human body systems as they explore identity, communication, power, movement, protection, and homeostasis. Students design experiments, investigate the structures and functions of the human body, and use data acquisition software to monitor body functions such as muscle movement, reflex and voluntary action, and respiration. Exploring science in action, students build organs and tissue on a skeletal manikin, work through interesting real world cases and often play the roles of biomedical professionals to solve medical mysteries. This course is designed for 10<sup>th</sup>, 11<sup>th</sup> or 12<sup>th</sup> grade students. College credit is offered through IUPUI for students that earn an EOC score of a 6 and above and a satisfactory grade in the course. The credit is accepted as a 100 level science elective. IUPUI offers letters of completion to students attending other colleges. Currently there is no fee for credits associated with PLTW for students enrolled at IUPUI. This course fulfills a science requirement for Core 40, Core 40 with Academic Honors and Core 40 with Technical Honors.

**Grade Level: 10-12**

**Prerequisites: PBS AND (HBS OR Anatomy & Physiology)**

**Counts as science course**

**Weight: 4.5 DOE# 5217**

**Course Description:**

Medical Interventions is the third course in the PLTW Biomedical Sciences program. In this year long course, students investigate a variety of interventions involved in the prevention, diagnosis and treatment of disease as they follow the life of a fictitious family. The course is a "How-To" manual for maintaining overall health and homeostasis in the body. Students explore how to prevent and fight infection; screen and evaluate the code in human DNA; prevent, diagnose and treat cancer; and prevail when the organs of the body begin to fail. Through these scenarios, students are exposed to a range of interventions related to immunology, surgery, genetics, pharmacology, medical devices, and diagnostics. This course is designed for 10th - 12th grade students. College credit is offered through IUPUI for students that earn an EOC score of a 6 and above and a satisfactory grade in the course. The credit is accepted as a 100 level science elective. IUPUI offers letters of completion to students attending other colleges. Currently there is no fee for credits associated with PLTW for students enrolled at IUPUI. This course fulfills a science requirement for Core 40, Core 40 with Academic Honors and Core 40 with Technical Honors.

**Penn# 0961**



**PLTW MEDICAL INTERVENTIONS**

**(MI)**

**Semesters: 2 Credits: 2**

**Penn# 0967**



**PLTW BIOMEDICAL INNOVATION**

**(BI)**

**Semesters: 2 Credits: 2**

**Grade Level: 12**

**Prerequisites: MI**

**Weight: 4.5 DOE# 5219**

**Ivy Tech- PLTW BIOT 107 Human Body Systems & Biomedical Interventions**

**Course Description:**

Biomedical Innovation is a capstone course designed to give students the opportunity to design innovative solutions for the health challenges of the 21<sup>st</sup> century as they work through progressively challenging open ended problems, addressing topics such as clinical medicine, physiology, biomedical engineering, and public health. They have the opportunity to work on an independent project and may work with a mentor or advisor from a university, hospital, physician's office or industry. Throughout the course the students are expected to present their work to an adult audience that may include representatives from the local business and health care community. This course fulfills a science requirement for Core 40, Core 40 with Academic Honors and Core 40 with Technical Honors. This course fulfills a science requirement for Core 40, Core 40 with Academic Honors and Core 40 with Technical Honors.

**Penn# 0949/0950**

**NANOTECHNOLOGY**

**Semesters: 2 Credits: 2**

**Grade Level: 11-12**

**Prerequisites: Biology and ICP or Biology and Chemistry (or concurrent enrollment in Chemistry)**

**Weight: 4.0 DOE# 3092**

**Course Description:**

Nanotechnology is the fastest growing field of scientific research dealing with technology that is 1,000,000 times smaller than the diameter of the average human hair. This course will

use modeling and laboratory investigations to learn how properties of materials change as they progress from the macroscale, through the microscale, to the nanoscale. As we do this, we will learn how things like biosensors, nanomagnets and computer and cell phone microchips are made. Along the way we will discuss and investigate practical applications which are currently being used and those which are being developed for use in the near future.

**Penn# 0953**

**SCIENCE RESEARCH**

**INDEPENDENT STUDY**

**Semesters: 2 Credits: 2**

**Grade Level: 11-12**

**Prerequisites: Recommendation from Science teacher AND Physics I (or concurrent enrollment in Physics I)**

**Weight: 4.5 DOE# 3008**

**Course Description:**

This course is designed to provide students with unique opportunities for independent, in-depth study of one specific scientific problem. Students will develop research skills and a familiarity with the laboratory procedures used in research. Students will be expected to complete a science project that will be exhibited in a science fair or comparable competition and/or end-of-course project such as a research paper and poster presentation of their finding. This course counts as a science course for Core – 40, Core-40 with Academic Honors and Core 40 with Technical Honors diplomas. This course may be taken two years in a row.

# AGRICULTURE

## Introduction to Agriculture, Food, and Natural Resources

(9-12)  
(644)

Agribusiness Management  
(10-12)  
(647)

Animal Science  
(10-12)  
(643)

Natural Resources  
(10-12)  
(649)

Landscape Management  
(10-12)  
(651)

Horticulture Science  
(10-12)  
(659)

Advanced Life Science:  
Animals  
(11-12)  
(645)

## AGRICULTURE

**Penn# 0644**

### **INTRODUCTION TO AGRICULTURE, FOOD, AND NATURAL RESOURCES**

**Semesters: 2 Credits: 2**

**Grade Level: 9-12**

**Weight: 4.0 DOE# 5056**

#### **Course Description:**

(INT AGFNR) Introduction to Agriculture, Food and Natural Resources is 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 agriculture, food and natural resources. Counts as an elective Course for the Core 40, Core 40 with Academic Honors and Core 40 with Technical Honors diplomas.

**Penn# 0647  **

### **AGRIBUSINESS MANAGEMENT**

**Semesters: 2 Credits: 2**

**Grade Level: 10-12**

**Weight: 4.5 DOE# 5002**

### **Ivy Tech AGRI 102 Agribusiness and Farm Management**

**College Credits: 3**

**Course Description:**

This dual credit course presents the concepts necessary for managing agriculture-related businesses such lawn and garden centers, landscape nurseries, lawn care services, greenhouses, animal supply stores, pet care shops, farm supply stores, produce markets, livestock production, machinery repairs and environmental consulting firms. Concepts covered include: identification of careers; safety management; entrepreneurship; the planning, organizing, controlling and directing of an agribusiness; effects of government organizations; economic principles; credit; record keeping; budgeting; fundamentals of cash flow; the tax system; insurance; marketing; cooperatives; purchasing; technology; human resources; management; business relations and responsibilities. Guest speakers, field trips, laboratories, and business simulation projects will aid in course instruction. Students may use this course to meet one of the requirements for the Academic or Technical Honors Diploma if they fulfill the following: Students completing the course with a grade of "C" or higher will earn free college credit from Ivy Tech Community College Indiana. Any student earning dual credit may apply those credits to the academic or technical honors diploma.

**Penn# 0643**

### **ANIMAL SCIENCE**

**Semesters: 2 Credits: 2**

**Grade Level: 10-12**

**Prerequisite: Biology I or permission of instructor**

**College Credits: 3**

**Counts as 3rd science course**

**Weight: 4.5 DOE# 5008**

### **Ivy Tech AGRI 103 Animal Science**

**Course Description:**

This year long course provides students with an overview of the field of animal science. Students will study large and small animal species. Topics to be addressed include: careers in animal science, animal science, anatomy, physiology, genetics, reproduction, nutrition, common diseases and parasites, management practices for the care and maintenance of animals, social and political issues related to the animal industry, and aquaculture. Guest speakers, field trips, practical skills laboratories, multi-media projects, and actual "hands on" experience with animals will aid in course instruction. Students may use this course to meet one of the requirements for the Academic or Technical Honors Diploma if they fulfill the following: Students completing the course with a grade of "C" or higher will earn free college credit from Ivy Tech Community College Indiana. Any student earning dual credit may apply those credits to the academic or technical honors diploma.

**Penn# 0649**

### **NATURAL RESOURCES**

**Semesters: 2 Credits: 2**

**Grade Level: 10-12**

**Counts as 3rd science course**

**Weight: 4.5 DOE# 5180**

**Ivy Tech AGRI 115 Natural Resources Management**

**College Credits: 3**

**Course Description:**

This dual credit course provides students with a background in natural resource management. Students are introduced to career opportunities in natural resource management and related industries, the history of the forest industry and forest policy, the importance and uses of forest plants, factors which influence the development of forests, forest improvement and management, proper care and use of forest tools, effects of management practices on the environment, soil conservation practices, water and its importance, hazardous waste management, native wildlife, waterfowl and fish management, surveying and map use, management of recreational areas, outdoor safety, weather, and energy resources. Guest speakers, field trips, practical skills laboratories, and natural resource improvement projects will aid in course instruction. Students will be involved with the Water Watchers of Indiana, River Watch Project and the Environmental and Natural Resources Management Career Development Competition. Students may use this course to meet one of the requirements for the Academic or Technical Honors Diploma if they fulfill the following: Students completing the course with a grade of "C" or higher will earn free college credit from Ivy Tech Community College Indiana. Any student earning dual credit may apply those credits to the academic or technical honors diploma.

**Penn# 0659** 

**HORTICULTURE SCIENCE**

**Semesters: 2 Credits: 2**

**Grade Level: 10-12**

**Weight: 4.5 DOE# 5132**

**Ivy Tech AGRI 116 Survey of Horticulture**

**College Credits: 3**

**Course Description:**

This course provides students with an overview of the field of horticulture science. It addresses the biology and technology involved in the production, processing, and marketing of horticulture plants (such as flowers, houseplants, landscape plants, fruits, nuts and vegetables) and their products. Topics covered include: reproduction and propagation of plants, plant growth, growth media, greenhouse management, marketing, concepts, production of herbaceous, woody and nursery stock plants, fruit, nut and vegetable production and pest management. Students will be involved in the management and operation of the Penn High School greenhouse. Students may use this course to meet one of the requirements for the Academic or Technical Honors Diploma if they fulfill the following: Students completing the course with a grade of "C" or higher will earn free college credit from Ivy Tech Community College Indiana. Any student earning dual credit may apply those credits to the Academic or Technical honors diploma.

**College Credits: 3**

**Course Description:**

Landscape Management is a year-long course that provides the student with an overview of the field of landscape management. Students are introduced to the procedures used in the planning and design of landscapes, the principles and procedures involved with landscaping construction, the determination of maintenance schedules, communications, and management skills necessary in landscaping operations and the care and use of equipment utilized by landscapers. Students will design and be involved in the installation of the Penn High School Building Trades house landscape. Students will also be involved with the operation and management of the Penn High School greenhouse. Junior and senior students will have the opportunity to earn Accredited Horticulturist Certification from the Indiana Nursery and Landscape Association and Landscape Industry Certified Technical Certification from the Professional Landscape Network (PLANET). Students completing the course with a grade of "C" or higher will earn free college credit from Ivy Tech Community College Indiana. Any student earning dual credit may apply those credits to the Academic or Technical honors diploma.

**Penn# 0651** 

**LANDSCAPE MANAGEMENT**

**Semesters: 2 Credits: 2**

**Grade Level: 10-12**

**Quantitative Reasoning Course**

**Weight: 4.5 DOE# 5136**

**Ivy Tech AGRI 164 Landscape Design I**

**Penn# 0645** 

**ADVANCED LIFE SCIENCES: ANIMALS**

**Semesters: 2 Credits: 2**

**Grade Level: 11-12**

**Prerequisite: Biology I, Chemistry I**

**& Animal Science**

**Weight: 4.5 DOE# 5070**

**Ivy Tech AGRI 107 Advanced Animal**

**Science**

**College Credits: 3**

**Course Description:**

Students should not take this class concurrently with Animal Science. This year long Advanced Credit Examination (ACE) course allows students to investigate concepts that enable them to understand animal life and animal science as it pertains to companion animals. Students interested in careers in Veterinary Medicine, Veterinary Technology, Biotechnology, and Life Sciences will be challenged through instruction, including laboratory and fieldwork. They will recognize concepts associated with animal taxonomy, life at the cellular level, organ systems, genetics, evolution, ecology, and historical and current issues in animal agriculture. Students will have the opportunity to "test out" of Animal Science 106 at Purdue University. This end of course assessment will grant students who successfully complete the test the opportunity to earn Purdue University College Advanced credit (at minimal cost) and move directly into more advanced level science and agricultural science studies. This course fulfills a Core 40 science requirement for the General Core 40, Core 40 with Academic Honors or the Core 40 with Technical Honors high school diploma.

# Engineering & Technology Course Offerings

Engineering Design & Development 608*#	Welding II 622	Building Trades II 635	Robotics II & Internship II 610# & 678 (FRC)
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Civil Engineering & Architecture 655*#	Digital Electronics 613*#	Aerospace 653*#	Networking I 239	Architecture III 654#	Building Trades 633	Robotics I & Internship I 609# & 677 (FRC)
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Principles of Engineering 607*#	IT Support II 1852#	Advanced Manufacturing II 627	Welding I 620	Architecture II 656#	Construction Trades 631	FIRST Tech Challenge - FTC 10 612 or 616
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Intro to Engineering Design 605*# or 606*# (606 is an all girls class)	Computers in Design & Production (Exploratory STEM) 603	IT Support I (Fix, Build, Understand Computers) 615#	Advanced Manufacturing I 625	Architecture I 604#	Intro to Construction 629	FIRST Tech Challenge - FTC 9 602 or 614
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\* Indicates a PLTW Course

# Indicates Dual Credit with Ivy Tech

## ENGINEERING & TECH

### ENGINEERING:

#### Project Lead the Way (PLTW)

PLTW (Project Lead the Way) helps students develop the skills needed to succeed in our global economy. PLTW courses are aligned with State Standards for Math and English Language Arts, Next Generation Science Standards, and other national and state standards. Courses and units are designed to complement math and science courses. Courses can meet requirements for the Core 40 Academic Honors Diploma and Technical Honors Diploma.

#### Penn# 0605

##### **PLTW INTRODUCTION TO ENGINEERING DESIGN (IED)**

**Semesters: 2 Credits: 2**

**Grade Level: 9-12**

**Weight: 4.5 DOE# 4802**

**Ivy Tech- DESN 101 Intro to Design**

**Technology**

**College Credits: 3**

##### **Course Description:**

(IED) Introduction to Engineering and Design is an introductory course, which develops student problem solving skills with emphasis on the development of three-dimensional (3-D) solid models. Students will work both individually and in teams to design solutions to a variety of problems using 3D modeling

software. Students use the design process, applying math, science, and engineering standards to hands-on projects. Models of product solutions are created, analyzed and communicated using Autodesk Inventor. This course also works in a variety of project based learning activities such as The Innovation Challenge, Canstruction, and Mission to Engineer.

#### Penn# 0606

##### **PLTW INTRODUCTION TO ENGINEERING DESIGN (IED)**

**All Girls**

**Semesters: 2 Credits: 2**

**Grade Level: 9-12**

**Weight: 4.5 DOE# 4802**

**Ivy Tech- DESN 101 Intro to Design**

**Technology**

**College Credits: 3**

##### **Course Description:**

(IED) Introduction to Engineering and Design is an introductory course, which develops student problem solving skills with emphasis on the development of three-dimensional (3-D) solid models.

Students will work both individually and in teams to design solutions to a variety of problems using 3D modeling software. Students use the design process, applying math, science, and engineering standards to hands-on projects. Models of product solutions are created, analyzed and communicated using Autodesk Inventor. This course also works in a variety of project based learning activities such as The Innovation Challenge, Canstruction, and Mission to Engineer.

#### Penn# 0607

##### **PLTW PRINCIPLES OF ENGINEERING (POE)**

**Semesters: 2 Credits: 2**

**Grade Level: 10-12**

**Prerequisite: Introduction to Engineering Design (IED)**

**Counts as 3rd science course**

**Weight: 4.5 DOE# 5644**

**Ivy Tech- DESN 104 Mechanical Graphics**

**College Credits: 3**

##### **Course Description:**

Principles of Engineering (POE) 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, electrical 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 projection systems in developing and presenting solutions to engineering problems.

such as an airfoil, propulsion systems, and a rocket. They learn orbital mechanics concepts and apply these by creating models using industry-standard software. They also apply aerospace concepts to alternative applications such as a wind turbine and parachute. Students simulate a progression of operations to explore a planet, including creating a map of the terrain with a model satellite and using the map to execute a mission using an autonomous robot.

**Penn# 0655**  

**PLTW CIVIL ENGINEERING AND ARCHITECTURE (CEA)**

**Semesters: 2 Credits: 2**

**Grade Level: 10-12**

**Prerequisite: IED and POE**

**Weight: 4.5 DOE# 5650**

**Ivy Tech- DESN 105 Architectural Design I**

**College Credits: 3**

**Course Description:**

Civil Engineering and Architecture introduces students to the fundamental design and development aspects of civil engineering and architectural planning activities. Application and design principles will be used in conjunction with mathematical and scientific knowledge. Computer software programs (Revit) will allow students opportunities to design, simulate, and evaluate the construction of buildings and communities. During the planning and design phases, instructional emphasis will be placed on related transportation, water resource, and environmental issues. Activities will include the preparation of cost estimates, structure design, surveying, model building, as well as a review of regulatory procedures that would affect the project design.

**Penn# 0653**  

**PLTW AEROSPACE ENGINEERING (AE)**

**Semesters: 2 Credits: 2**

**Grade Level: 10-12**

**Prerequisite: IED and POE**

**Counts as 3rd science course**

**Weight: 4.0 DOE# 5518**

**Course Description:**

Aerospace Engineering ignites students' learning in the fundamentals of atmospheric and space flight. Aerospace Engineering is one of the specialization courses in the PLTW Engineering program. The course deepens the skills and knowledge of an engineering student within the context of atmospheric and space flight. Students explore the fundamentals of flight in air and space as they bring the concepts to life by designing and testing components related to flight

**Penn# 0613**  

**PLTW DIGITAL ELECTRONICS (DE)**

**Semesters: 2 Credits: 2**

**Grade Level: 10-12**

**Prerequisite: IED and POE**

**Weight: 4.5 DOE# 5538**

**Ivy Tech- EECT 112 Digital Fundamentals**

**College Credits: 3**

**Course Description:**

Digital Electronics is a course of study in applied digital logic that encompasses the design and application of electronic circuits and devices found in video games, watches, calculators, digital cameras, and thousands of other devices. Instruction includes the application of engineering and scientific principles as well as the use of Boolean algebra to solve design problems. Using computer software that reflects current industry standards, activities will provide opportunities for students to design, construct, test, and analyze simple and complex digital circuitry. Software will be used to develop and evaluate the product design. This course engages students in critical thinking and problem-solving skills, time management and teamwork skills.

**Penn# 0608**  

**PLTW ENGINEERING DESIGN & DEVELOPMENT (EDD)**

**Semesters: 2 Credits: 2**

**Grade Level: 12**

**Prerequisite: Two Engineering & Tech courses or permission from instructor**

**Weight: 4.0 DOE# 5698**

**Course Description:**

Engineering Design and Development is an engineering research course in which students work in teams to research, design, test, and construct a solution to an open-ended engineering problem. The product development life cycle and a design process are used to guide the team to reach a solution to the problems. The team presents and defends their solution to a panel of outside reviewers at the conclusion of the course. The EDD course allows students to apply all the skills and knowledge learned in previous pre-engineering courses. This course also engages students in critical thinking and problem-solving skills, time management and teamwork skills, a valuable set for students' future careers.

Families will be expected to attend informational meetings in the evenings. Many skills and processes are learned in FTC to build the individual towards an effective team member for the Robotics Classes (FRC 11th and 12th grade years). Students get to Design, build, and program robots, Apply real-world math and science concepts, Develop strategic problem solving, organizational, and team building skills, Compete and cooperate in Alliances at tournaments, Earn a place in the World Championships, Qualify for scholarships at over 100 colleges/universities

**\*There will be evening and weekend commitments to participating in this class. Students will ride a school bus and stay overnight at certain competitions.**

in FTC to build the individual towards an effective team member for the Robotics Classes (FRC 11th and 12th grade years). Students get to Design, build, and program robots, Apply real-world math and science concepts, Develop strategic problem solving, organizational, and team building skills, Compete and cooperate in Alliances at tournaments, Earn a place in the World Championships, Qualify for scholarships at over 100 colleges/universities

**\*There will be evening and weekend commitments to participating in this class. Students will ride a school bus and stay overnight at certain competitions.**

## **ROBOTICS:**

**Penn# 0602 (0614 - 0 Hour)** 

**FIRST TECH CHALLENGE FTC 9**

**Semesters: 2 Credits: 2**

**Grade Level: 9**

**Weight: 4.5 DOE# 4794**

**Ivy Tech- DESN 101 Intro to Design Technology**

**College Credits: 3**

**Course Description:**

Students can choose to take this course as a 0 hour class or a normal class. 0 hour class will meet outside the school day. FTC is designed for students to work together solving an engineering problem. Teams of students are responsible for designing, building, and programming their competition robots. Competitions are held throughout Indiana and the nation. Students will learn and use the design process to guide their work in class.

**Penn# 0612 (0616 - 0 Hour)**  

**FIRST TECH CHALLENGE FTC 10**

**Semesters: 2 Credits: 2**

**Grade Level: 10-12**

**Weight: 4.5 DOE# 4728**

**Ivy Tech- DESN 104 Mechanical Graphics**

**College Credits: 3**

**Course Description:**

Students can choose to take this course as a 0 hour class or a normal class. 0 hour class will meet outside the school day. FTC is designed for students to work together solving an engineering problem. Teams of students are responsible for designing, building, and programming their competition robots. Competitions are held throughout Indiana and the nation. Students will learn and use the design process to guide their work in class. Families will be expected to attend informational meetings in the evenings. Many skills and processes are learned

**Penn# 0609** 

**AUTOMATION & ROBOTICS I**

**Semesters: 2 Credits: 2**

**Grade Level: 11-12**

**Prerequisite: Application required**

**Weight: 4.0 DOE# 5610**

**This course is weighted on a 4.5 scale if taken with Penn FIRST Robotics Internship I.**

**Ivy Tech- INDT 113 Basic Electricity**

**College Credits: 3**

**Course Description:**

This course is designed to give students an experience in the Design Process as it relates to building a competition robot. Since 1998 this class has participated in the FIRST (for inspiration and recognition of Science and Technology) Competition. Students will dedicate the entire year learning the necessary skills and processes needed to contribute to building Penn High School's FRC Robot, "The Black Knight!" Experiences such as 3D Modeling, 3D

Printing, Machining, Welding, Wiring, Programming, Assembling, Controlling, and Driving are all topics of study. Students that successfully complete both classes *Automation & Robotics* and *Penn FIRST Robotics Internship* will receive a weighted grade.

**\*Students should plan to take both Automation & Robotics as well as Penn FIRST Robotics Internship.**

**Penn# 0610**  

### **AUTOMATION & ROBOTICS II**

**Semesters: 2 Credits: 2**

**Grade Level: 12**

**Prerequisite: Automation & Robotics I AND Application**

**Weight: 4.0 DOE# 5612**

**This course is weighted on a 4.5 scale if taken with Penn FIRST Robotics Internship II.**

**Ivy Tech- ADMF 122 Automation Mechatronics Electrical Systems**

**College Credits: 3**

#### **Course Description:**

This course is designed to give students an experience in the Design Process as it relates to building a competition robot. Since 1998 this class has participated in the FIRST (for inspiration and recognition of Science and Technology) Competition. Students will dedicate the entire year learning the necessary skills and processes needed to contribute to building Penn High School's FRC Robot, "The Black Knight!" Experiences such as 3D Modeling, 3D Printing, Machining, Welding, Wiring, Programming, Assembling, Controlling, and Driving are all topics of study. Students that successfully complete both classes *Automation & Robotics* and *Penn FIRST Robotics Internship* will receive a weighted grade.

**\*Students should plan to take both Automation & Robotics as well as Penn FIRST Robotics Internship.**

**Penn# 0677**

### **PENN FIRST ROBOTICS**

#### **INTERNSHIP I (WBL)**

**Semesters: 2 Credits: 2**

**Grade Level: 11-12**

**Prerequisite: Application required**

**Weight: 4.0 DOE# 5974**

**This course is weighted on a 4.5 scale if taken with Automation & Robotics I.**

#### **Course Description:**

This course is offered as a 0 hour class. Students will report to class outside of the school day. Classes will meet at 7:30am on Gold Days and 3:30pm to 5:30 pm one day per week. This class is offered in conjunction with the Automation & Robotics I & II classes. Robotics Internship students participate in Penn's school-based enterprise "The Black Knight" FRC Robot in all facets of operations, including marketing, fundraising, and community outreach. Students that successfully complete both classes *Automation & Robotics* and *Penn FIRST Robotics Internship* will receive a weighted grade.

**\*Students should plan to take both Automation & Robotics I as well as Penn FIRST Robotics Internship I.**

**Penn# 0678**

### **PENN FIRST ROBOTICS**

#### **INTERNSHIP II (WBL)**

**Semesters: 2 Credits: 2**

**Grade Level: 11-12**

**Prerequisite: Penn First Robotics Internship I AND Application**

**Weight: 4.0 DOE# 5974**

**This course is weighted on a 4.5 scale if taken with Automation & Robotics II.**

#### **Course Description:**

This course is offered as a 0 hour class. Students will report to class outside of the school day. Classes will meet at 7:30am on Gold Days and 3:30pm to 5:30 pm one day per week. This class is offered in conjunction with the Automation & Robotics I & II classes. Robotics Internship students participate in Penn's school-based enterprise "The Black Knight" FRC Robot in all facets of operations, including marketing, fundraising, and community outreach. Students that successfully complete both classes *Automation & Robotics* and *Penn FIRST Robotics Internship* will receive a weighted grade.

**\*Students should plan to take both Automation & Robotics II as well as Penn FIRST Robotics Internship II.**

## **ARCHITECTURE:**

**Penn# 0604** 

### **ARCHITECTURAL DESIGN I**

**Semesters: 2 Credits: 2**

**Grade Level: 9-12**

**Weight: 4.5 DOE# 5640**

**Ivy Tech- DESN 101 Intro to Design Technology**

**College Credits: 3**

#### **Course Description:**

Architectural Drafting and Design I gives students a basic understanding of the detailing skills commonly used by architectural technicians. Areas of study include: sketching, proper use of equipment, geometric constructions, and general residential design. This course includes the creation and interpretation of construction documents. Methods of geometric construction, three-dimensional drawing techniques, and sketching will be presented as well as elementary

aspects of residential design and site work. Areas of emphasis will include print reading and drawing. This course also provides students with a basic understanding of the features and considerations associated with the operation of a computer-aided design (CAD) system. They will be expected to complete several projects 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.

**Penn# 0656**    
**ARCHITECTURAL DESIGN II**

**Semesters: 2 Credits: 2**  
**Grade Level: 10-12**  
**Prerequisites: Architectural Design I**  
**Weight: 4.5 DOE# 5652**  
**Ivy Tech- DESN 105 Architectural Design I**  
**College Credits: 3**

**Course Description:**  
Architectural Design II builds on the concepts of Architectural Design I and presents a history and survey of architecture with a focus on the creative design of buildings in a studio environment. This course covers site analysis, facilities programming, space planning, conceptual design, and the proper use of materials. Students will develop presentation drawings, give oral presentations, and critique works. Generation of form and space is addressed through basic architectural theory, related architectural styles, design strategies, and a visual representation of the student's design process. This course will focus on advanced Computer Aided Design (CAD) techniques. It includes an overview of modeling, graphical

manipulation, part structuring, and modeling strategies. Various Architectural software packages and applications will be used.

**Penn# 0654**    
**ARCHITECTURAL DESIGN III**

**Semesters: 2 Credits: 2**  
**Grade Level: 11-12**  
**Prerequisites: Architectural Design II**  
**Weight: 4.5 DOE# 5650**  
**Ivy Tech- DESN 105 Architectural Design I**  
**College Credits: 3**

**Course Description:**  
Course Description: CEA Non PLTW introduces students to the fundamental design and development aspects of civil engineering and architectural planning activities. Application and design principles will be used in conjunction with mathematical and scientific knowledge. Computer software programs should allow students opportunities to design, simulate, and evaluate the construction of buildings and communities. During the planning and design phases, instructional emphasis should be placed on related transportation, water resource, and environmental issues. Activities should include the preparation of cost estimates as well as a review of regulatory procedures that would affect the project design.

## **TECHNOLOGY:**

**Penn# 0603**   
**COMPUTERS IN DESIGN & PRODUCTION**

**Semesters: 2 Credits: 2**  
**Grade Level: 9-12**

**Weight: 4.5 DOE# 4800**  
**Ivy Tech- DESN 101 Intro to Design Technology**

**College Credit: 3**

**Course Description:**

Computers in Design and Production is a course that specializes in design using code and 3D modeling while addressing various topics in Engineering, Architecture, Electronics and Robotics. Students will use the design process and documentation process while producing hands-on projects.

**Penn# 0615**   
**INFORMATION TECHNOLOGY SUPPORT I**

**Semesters: 2 Credits: 2**  
**Grade Level: 9-12**  
**Weight: 4.5 DOE# 5230**  
**Ivy Tech- INFM 109 Informatics Fundamentals & ITSP 135**  
**Hardware/Software Support**  
**College Credit: 7**

**Course Description:**  
This course 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.

## **MANUFACTURING:**

**Penn# 0625**  
**ADVANCED MANUFACTURING I**

**Semesters: 2 Credits: 2**  
**Grade Level: 9-12**

**Weight: 4.0    DOE# 5608**

**Course Description:**

Advanced Manufacturing I is designed to provide students with a basic understanding of the precision machining processes used in industry, manufacturing, maintenance, and repair. The course instructs students in industrial safety, terminology, tools and machine tools, measurement and layout. Students will become familiar with the setup and operation of power saws, drill presses, lathes, milling machines, grinders, welding and an introduction to CNC (computer controlled) machines.

**Penn# 0627    Q**

**ADVANCED MANUFACTURING II**

**Semesters: 2   Credits: 2**

**Grade Level: 10-12**

**Prerequisite: Advanced Manufacturing I**

**Weight: 4.0    DOE# 5606**

**Course Description:**

Advanced Manufacturing II is a more in-depth study of skills learned in Advanced Manufacturing I, with a stronger focus in CDN setup/operation/programming.

Classroom activities will concentrate on precision set-up and inspection work as well as machine shop calculations. Students will develop skills in advanced machining and measuring parts.

**Penn# 0620**

**WELDING TECHNOLOGY I**

**Semesters: 2   Credits: 2**

**Grade Level: 10-12**

**Prerequisite: Advanced Manufacturing I**

**Weight: 4.0    DOE# 5776**

**Course Description:**

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.

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.

**CONSTRUCTION:**

**Penn# 0629**

**CONSTRUCTION TRADES I**

**Semesters: 2   Credits: 2**

**Grade Level: 9-12**

**Weight: 4.0    DOE# 5580**

**Course Description:**

Introduction to Construction is an entry-level course that emphasizes the use of tools, materials, and techniques used in the construction industry. Students will learn how to safely operate various hand and power tools. Joinery and assembly methods will also be studied. Students will use these methods to produce a wide variety of projects.

**Penn# 0622**

**WELDING TECHNOLOGY II**

**(Double Block)**

**Semesters: 2   Credits: 4**

**Grade Level: 11-12**

**Prerequisite: Welding Technology I**

**Weight: 4.0    DOE# 5778**

**Course Description:**

Welding Technology II is a 2 block class. It includes classroom and laboratory experiences that develop a variety of skills in Gas Metal Arc welding, Flux Cored Arc Welding, Gas Tungsten Arc welding, Plasma Cutting and Carbon Arc Cutting. This course is designed for individuals who intend to pursue careers as Welders, Technicians, Sales Reps, Designers, Researchers or Engineers. Emphasis is placed on safety at all times. OSHA standards and guide-lines endorsed by the American Welding Society (AWS) are used. Instructional activities

**Penn# 0631**

**CONSTRUCTION TRADES II**

**Semesters: 2   Credits: 2**

**Grade Level: 10-12**

**Prerequisite: Introduction to Construction or Introduction to Engineering Design**

**Weight: 4.0    DOE# 5580**

**Course Description:**

Construction Trades I is a specialized course that builds on the fundamentals acquired in the Introduction to Construction class to further understand the technological processes used in the building trades industry. Students will learn common processing and assembly methods and

employ those techniques to create a wide variety of projects.

**Penn# 0633 Q**

**VOCATIONAL BUILDING**

**TRADES I**

**(4 Blocks)**

**Semesters: 2 Credits: 6**

**Grade Level: 11-12**

**Prerequisite: Application required**

**Weight: 4.0 DOE# 5496**

**Course Description:**

**Transportation will be provided to the construction site and back to the school.**

Students will spend 1<sup>st</sup> and 2<sup>nd</sup> periods every day at the Building Trades site. This course is designed to give students practical experiences in the different phases of house construction through the building of a house on a site near the school. Students will gain some knowledge and experience in house wiring, plumbing, heating, concrete and masonry work, painting, drywall application, landscaping, and carpentry. After successful completion of this course, students should be prepared to enter some phase of the building trades. This class will help with future projects in your home!

Students will earn an OSHA 10 certification. Students will need a basic set of tools. Students are responsible for their own transportation to the construction site and back to school after class.

**Penn# 0635**

**VOCATIONAL BUILDING**

**TRADES II**

**(4 Blocks)**

**Semesters: 2 Credits: 6**

**Grade Level: 12**

**Prerequisite: Vocational Building**

**Trades I AND application**

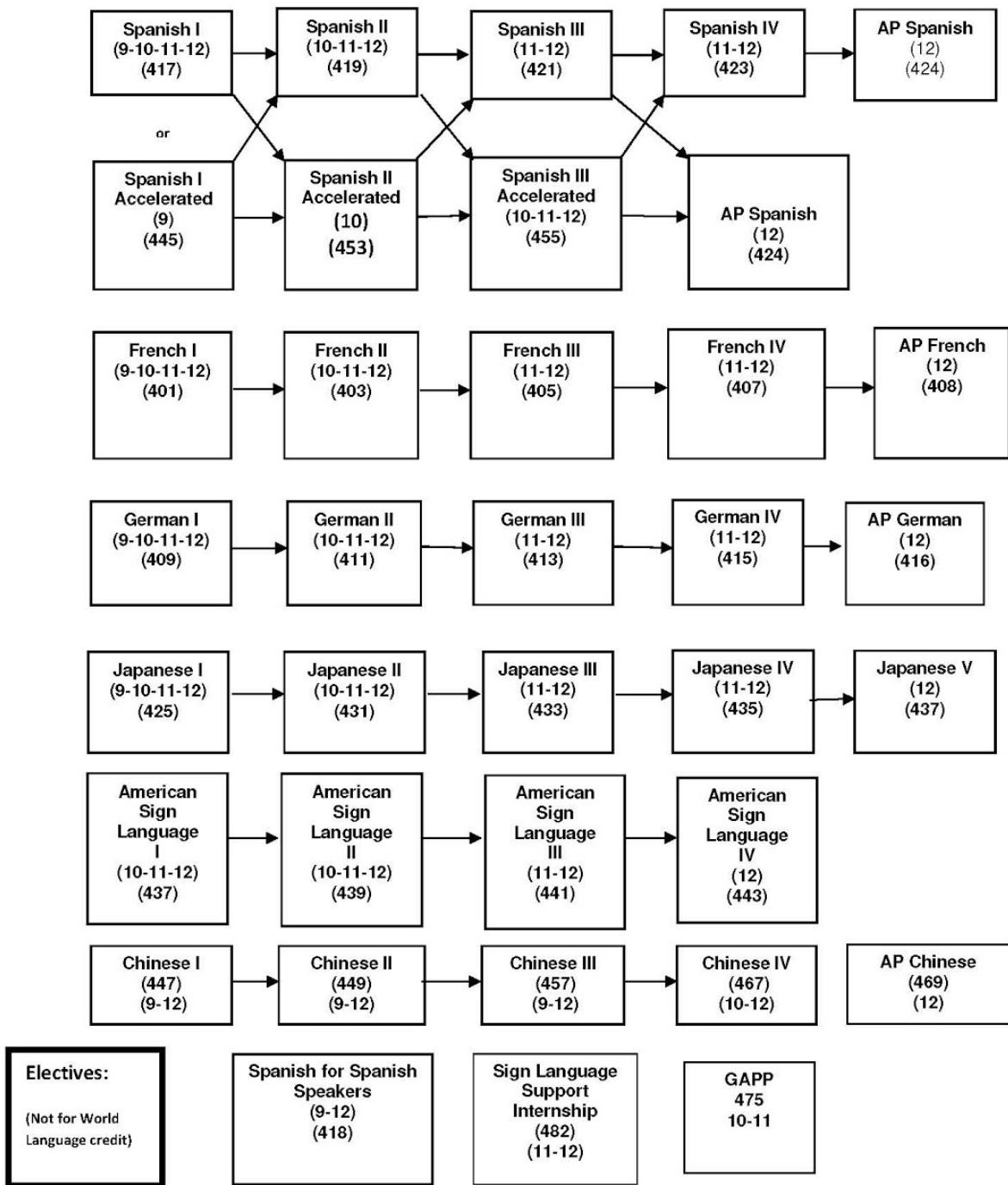
**Weight: 4.0 DOE# 5496**

**Course Description:**

**Transportation will be provided to the construction site and back to the school.**

Students will spend 1<sup>st</sup> and 2<sup>nd</sup> periods every day at the Building Trades site. Students will have the same opportunities that they had in Vocational Building Trades I. Students will be able to specialize in a specific area of house construction, with an emphasis on the installation, operation, and maintenance of HVAC systems. After successful completion of the course, students will be prepared to enter some phase of the building trades. Students will earn an OSHA 10 certification. Students will need a basic set of tools. Students are responsible for their own transportation to the construction site and back to school after class.

# WORLD LANGUAGES



## **WORLD LANGUAGES**

**With the exception of Spanish for Spanish Speakers, all World Language courses qualify for CORE 40 and Academic Honors Diploma. Students may qualify for Core 40 without world language; however, many colleges require 2 years of World Language for admission. Please check with individual colleges for admissions requirements.**

**For students to receive Academic Honors, students must take the class in a traditional classroom setting and not through any online program.**

**Penn# 0401**



**FRENCH I**

**Semesters: 2 Credits: 2**

**Grade Level: 9-12**

**Weight: 4.0 DOE# 2020**

**Course Description:**

Level I French provides instruction enabling students to discuss the many reasons for learning languages and to develop an understanding of the people who speak them. Students are able to apply effective strategies for language learning and show a willingness to experience various aspects of the cultures. Within this context, the course provides students with opportunities to respond to and give oral directions and commands and to make routine requests in the classroom and in public places, understand and use appropriate forms of address in courtesy expressions and be able to tell about daily routines and

events, ask and answer simple questions and participate in brief guided conversations related to their needs and interests, read isolated words and phrases in a situational context, such as menus, signs, and schedules, comprehend brief written directions and information, read short narrative texts on simple topics and, write familiar words and phrases in appropriate contexts and respond in writing to various stimuli. Additionally, students learn about nonverbal communication, such as gestures and body language, about awareness of current events in the cultures, the major holidays and geographical features of the countries being studied, greeting and leave taking behaviors in a variety of social situations, the appropriate way to respond to introductions and use courtesy behaviors and, appropriate etiquette in a variety of social settings

or responding to an offer of help, and expressing preferences pertaining to everyday life, understand main ideas and facts from simple texts over familiar topics, read aloud with appropriate intonation and pronunciation and, write briefly in response to given situations, for example postcards, personal notes, phone messages, and directions, as well as write letters using culturally appropriate format and style. Additionally, students become familiar with major geographical features, historical events, and political structures of the countries being studied, familiar with different aspects of the culture, including the visual arts, architecture, literature and music, using the foreign language where appropriate, able to extend and respond to hospitality as a host or guest and, aware of time expectations, such as arriving for appointments and social engagements

**Penn# 0403**



**FRENCH II**

**Semesters: 2 Credits: 2**

**Grade Level: 10-12**

**Prerequisite: French I**

**Weight: 4.0 DOE# 2022**

**Course Description:**

Level II French enables students to participate in classroom and extracurricular activities related to the language studied as well as to participate in conversations dealing with daily activities and personal interests. Students will be able to ask questions regarding routine activities, participate in conversations on a variety of topics, relate a simple narrative about a personal experience or event, interact in a variety of situations to meet personal needs, such as asking permission, asking for

**Penn# 0405**



**FRENCH III**

**Semesters: 2 Credits: 2**

**Grade Level: 11-12**

**Prerequisite: French II**

**Weight: 4.0 DOE# 2024**

**Course Description:**

Level III French provides instruction enabling students to understand and appreciate other cultures by comparing social behaviors and values of people using the languages being learned. Students must be willing to initiate and participate in discussions concerning these cultures. In addition, students will be able to respond to factual and interpretive questions and interact in a variety of social situations, such as expressing regrets, condolences, and

complaints, and using more than rote memory formula phrases, read for comprehension from a variety of authentic materials, such as advertisements in newspapers and magazines, and cartoons and personal correspondence, read short literary selections of poetry, plays, and short stories, complete authentic forms and documents and take notes that require familiar vocabulary and structures, write paraphrases, summaries, and brief compositions, describe different aspects of the culture, using the foreign language where appropriate, including: (1) major historical events, (2) political structures, (3) value systems, (4) visual arts, (5) architecture, (6) literature, and (7) music and, seek help in a crisis situation and participate appropriately at special family occasions, such as birthdays, weddings, funerals, and anniversaries

**Penn# 0407**



**FRENCH IV**

**Semesters: 2 Credits: 2**

**Grade Level: 11-12**

**Prerequisite: French III**

**Weight: 4.0 DOE# 2026**

**Course Description:**

Level IV French enables students to participate in classroom and extra-curricular activities related to the language studied, such as presentations to the student body and to parent groups and taking leadership roles in language clubs. Students must be willing to participate in conversations with native and advanced non-native speakers, either in their community or in the school. This course also enables students to respond to factual and interpretive questions, interact in complex social situations, and express opinions and

make judgments, give presentations on cultural topics including: (1) traditions, (2) historical and contemporary events, and (3) major historical and artistic figures, paraphrase or restate what someone else has said, read for comprehension from a variety of longer authentic materials, such as newspapers and magazine articles, novels, and essays, as well as make judgments about what is read, write well organized compositions on a given topic and, begin using the language creatively in writing simple poetry and prose

Students are also aware of the relationship between various art forms in at least one major historical period, aware of the major literary, musical, and artistic periods and genres of at least one of the cultures in which the language is spoken, able to adjust speech appropriate to the situation and audience and, able to participate appropriately in a variety of specific circumstances which could include public meetings, attending concerts, and using public transportation

**Penn# 0408**



**AP® FRENCH**

**Semesters: 2 Credits: 2**

**Grade Level: 12**

**Prerequisite: French III**

**Weight: 5.0 DOE# 2032**

**Course Description:**

Advanced Placement® French enables students to participate in activities beyond the classroom that could include concerts, theatre performances, and community activities. Students are willing to participate in conversations with native speakers in the community and promote among their peers, and others, the benefits of foreign language

study and the study of the cultures in which the language is spoken. In addition, students are able to initiate and participate in conversations on current or past events that are of significance in the foreign culture, develop and propose solutions to issues and problems that are of concern to members of their own culture and the foreign culture being studied, demonstrate an understanding of the principal elements of nonfiction, articles in newspapers, magazines, and e-mail on topics of current and historical importance to members of the culture, analyze the main plot, subplot, characters and their descriptions, roles, and significance in authentic literary texts, create stories and poems, short plays, and skits based on personal experiences and exposure to themes, ideas, and perspectives from the foreign cultures and, summarize the content of an article intended for native speakers in order to discuss the topics in writing for speakers of the language. Additionally, students gain a general knowledge of the major literary and artistic movements within the cultures where the foreign language is spoken, become aware of the relationships, in these periods among the various art forms and, demonstrate near native behaviors, using the appropriate verbal and nonverbal cues in a variety of cultural contexts, that reflect both peer group and adult activities within the cultures studied.

**Penn# 0409**



**GERMAN I**

**Semesters: 2 Credits: 2**

**Grade Level: 9-12**

**Weight: 4.0 DOE# 2040**

**Course Description:**

Level I German provides instruction enabling students to discuss the many reasons for learning languages and to develop an understanding of the people who speak them. Students are able to apply effective strategies for language learning and show a willingness to experience various aspects of the cultures. Within this context, the course provides students with opportunities to respond to and give oral directions and commands and to make routine requests in the classroom and in public places, understand and use appropriate forms of address in courtesy expressions and be able to tell about daily routines and events, ask and answer simple questions and participate in brief guided conversations related to their needs and interests, read isolated words and phrases in a situational context, such as menus, signs, and schedules, comprehend brief written directions and information, read short narrative texts on simple topics and, write familiar words and phrases in appropriate contexts and respond in writing to various stimuli. Additionally, students learn, about nonverbal communication, such as gestures and body language, about awareness of current events in the cultures, the major holidays and geographical features of the countries being studied, greeting and leave taking behaviors in a variety of social situations, the appropriate way to respond to introductions and use courtesy behaviors and, appropriate etiquette in a variety of social settings

**Penn# 0411**



**GERMAN II**

**Semesters: 2 Credits: 2**

**Grade Level: 10-12**

**Prerequisite: German I**

**Weight: 4.0 DOE# 2042**

**Course Description:**

Level II German enables students to participate in classroom and extracurricular activities related to the language studied as well as to participate in conversations dealing with daily activities and personal interests. Students will be able to ask questions regarding routine activities, participate in conversations on a variety of topics, relate a simple narrative about a personal experience or event – orally or written, interact in a variety of situations to meet personal needs, understand main ideas and facts from simple texts over familiar topics, read aloud with appropriate intonation and pronunciation, and give short formal presentations, write briefly in response to given situations, for example write letters using culturally appropriate format and style. Additionally, students become familiar with different aspects of the culture

comprehension from a variety of authentic materials, and short literary selections which include fairy tales, short stories and books of appropriate length for third year students.

**Penn# 0415**



**GERMAN IV**

**Semesters: 2 Credits: 2**

**Grade Level: 11-12**

**Prerequisite: German III**

**Weight: 4.0 DOE# 2046**

**Course Description:**

Level IV German students will learn 20<sup>th</sup> Century German history and advanced grammar topics; students will read authentic works from the 19<sup>th</sup> & 20<sup>th</sup> Centuries, including poetry, short stories and plays; students will write lengthy essays and creative pieces. The German IV class is conducted in German and students will speak German.

**Penn# 0416**



**AP® GERMAN**

**Semesters: 2 Credits: 2**

**Grade Level: 12**

**Prerequisite: German III**

**Weight: 5.0 DOE# 2052**

**Course Description:**

Advanced Placement® German enables students to participate in activities beyond the classroom that could include concerts, theatre performances, and community activities. Students are willing to participate in conversations with native speakers in the community and promote among their peers, and others, the benefits of foreign language study and the study of the cultures in which the language is spoken. In addition, students will be able to

**Penn# 0413**



**GERMAN III**

**Semesters: 2 Credits: 2**

**Grade Level: 11-12**

**Prerequisite: German II**

**Weight: 4.0 DOE# 2044**

**Course Description:**

Level III German provides instruction enabling students to understand and appreciate other cultures by comparing social behaviors and values of people using the languages being learned. Students must be willing to initiate and participate in discussions concerning these cultures. In addition, students will be able to respond to factual and interpretive questions and interact in a variety of social situations, read for

initiate and participate in conversations on current or past events that are of significance in the foreign culture, develop and propose solutions to issues and problems that are of concern to members of their own culture and the foreign culture being studied, demonstrate an understanding of the principal elements of nonfiction, articles in newspapers, magazines, and e-mail on topics of current and historical importance to members of the culture, analyze the main plot, subplot, characters and their descriptions, roles, and significance in authentic literary texts, create stories and poems, short plays, and skits based on personal experiences and exposure to themes, ideas, and perspectives from the foreign cultures and, summarize the content of an article intended for native speakers in order to discuss the topics in writing for speakers of the language. Additionally, students gain a general knowledge of the major literary and artistic movements within the cultures where the foreign language is spoken, become aware of the relationships, in these periods among the various art forms, and demonstrate near native behaviors, using the appropriate verbal and nonverbal cues in a variety of cultural contexts, that reflect both peer group and adult activities within the cultures studied .

**Penn# 0475  
GERMAN AMERICAN PARTNERSHIP**

**PROGRAM (GAPP)**

**Semesters: 1 (Summer) Credits: 1**

**Grade Level: 10-11**

**Prerequisites: German II AND application**

**Counts as an Elective for all diplomas**

**Weight: 4.0 DOE# 0514**

**Course Description:**

*3+ weeks to be determined approximately one year before travel. Course is limited to 18 participants* A course in humanities provides for the study of content drawn from history, philosophy, literature, languages, and the arts. The Penn GAPPProgram includes an in-depth study of the German Language, Culture and History. Broad emphasis will be placed on the National Standards for Foreign Language Learning. The students will live with host families, attend school and travel. It is through these activities and experiences that students will gain an understanding of the target language; develop insight into the nature of the culture and communicate in a language other than English. Pre-trip preparations and course work will help the students develop an understanding of the German language, its culture and its rich history and how to actually apply it to the human environment.

understand and use appropriate forms of address in courtesy expressions and be able to tell about daily routines and events, ask and answer simple questions and participate in brief guided conversations related to their needs and interests, read isolated words and phrases in a situational context, comprehend brief written directions and information, read short narrative texts on simple topics and, write familiar words and phrases in appropriate contexts and respond in writing to various stimuli. Additionally, students learn about nonverbal communication, such as gestures and body language, about awareness of current events in the cultures, the major holidays and geographical features of the country being studied, greeting and leave taking behaviors in a variety of social situations, the appropriate way to respond to introductions and use courtesy behaviors and, appropriate etiquette in a variety of social settings

**Penn# 0425**



**JAPANESE I**

**Semesters: 2 Credits: 2**

**Grade Level: 9-12**

**Weight: 4.0 DOE# 2060**

**Course Description:**

Level I Japanese provides instruction enabling students to discuss the many reasons for learning languages and to develop an understanding of the people who speak them. Students are able to apply effective strategies for language learning and show a willingness to experience various aspects of the cultures. Within this context, the course provides students with opportunities to respond to and give oral directions and commands and to make routine requests in the classroom and in public places,

**Penn# 0431**



**JAPANESE II**

**Semesters: 2 Credits: 2**

**Grade Level: 10-12**

**Prerequisite: Japanese I**

**Weight: 4.0 DOE# 2062**

**Course Description:**

Level II Japanese enables students to participate in classroom and extracurricular activities related to the language studied as well as to participate in conversations dealing with daily activities and personal interests. Students will be able to ask questions regarding routine activities, participate in conversations on a variety of topics, relate a simple narrative about a personal experience or event, interact in a variety of

situations to meet personal needs, such as asking permission, asking for or responding to an invitation, and expressing preferences pertaining to everyday life, understand main ideas and facts from simple texts over familiar topics, read aloud with appropriate intonation and pronunciation and, write briefly in response to given situations, for example postcards, personal notes, and phone messages, as well as write letters using culturally appropriate format and style. Additionally, students become able to extend and respond to hospitality as a host or guest and, aware of time expectations, such as arriving for appointments and social engagements.

**Penn# 0433**



**JAPANESE III**

**Semesters: 2 Credits: 2**

**Grade Level: 11-12**

**Prerequisite: Japanese II**

**Weight: 4.0 DOE# 2064**

**Course Description:**

Level III Japanese provides instruction enabling students to understand and appreciate other cultures by comparing social behaviors and values of people using the languages being learned. Students must be willing to initiate and participate in discussions concerning these cultures. In addition, students will be able to respond to factual and interpretive questions and interact in a variety of social situations, such as expressing regrets, condolences, and complaints, and using more than rote memory formula phrases, read for comprehension from a variety of authentic materials, such as advertisements in newspapers and magazines, and cartoons and personal

correspondence, complete authentic forms and documents and take notes that require familiar vocabulary and structures, write paraphrases, summaries, and brief compositions.

**Penn# 0435**



**JAPANESE IV**

**Semesters: 2 Credits: 2**

**Grade Level: 12**

**Prerequisite: Japanese III**

**Weight: 4.0 DOE# 2066**

**Course Description:**

Level IV Japanese enables students to participate in classroom and extracurricular activities related to the language studied. Students must be willing to participate in conversations with native and advanced non-native speakers, either in their community or in the school. This course also enables students to respond to factual and interpretive questions, interact in complex social situations, and express opinions and make judgments, write well organized compositions on a given topic, begin using the language creatively in writing simple poetry and prose and conversation, seek help in a crisis situation and participate appropriately at special family occasions, such as birthdays, weddings and anniversaries. Students will also become able to adjust speech appropriate to the situation and audience and able to participate appropriately in a variety of specific circumstances which could include public meetings, attending concerts, and using public transportation.

**Penn# 0427**

**JAPANESE V**

**Semesters: 2 Credits: 2**

**Grade Level: 12**

**Prerequisite: Japanese IV AND**

**Teacher Approval**

**Weight: 4.0 DOE# 2068**

**Course Description:**

Level V Japanese is an advanced study of the Japanese language and culture. Some independent study may be required.

**Penn# 0417**



**SPANISH I**

**Semesters: 2 Credits: 2**

**Grade Level: 9-12**

**Weight: 4.0 DOE# 2120**

**Course Description:**

Level 1 Spanish introduces students to the Spanish language by practicing reading, writing, listening, and speaking skills on a daily basis. The goal of level 1 is to establish a solid foundation in the Spanish language. Students will learn strategies to become effective language learners. Within this context, the course provides students with opportunities to comprehend new language through dialogues, clip art, rhymes, visuals, and video, practice communication through use of technology, answer questions and express personal opinions both verbally and in writing, compare languages and cultures through grammar study, pronunciation, art, and readings in authentic settings, demonstrate all language skills through a variety of tasks and projects presented in the classroom.

**Penn# 0445**



**SPANISH I ACCELERATED**

**Semesters: 2 Credits: 2**

**Grade Level: 9**

**Weight: 4.0 DOE# 2120**

**Course Description:**

Spanish I Accelerated is designed to prepare highly capable, motivated students for future AP study and examination. This course is the first in a series of accelerated courses. Through a compacted curriculum, students will learn more vocabulary and more grammatical structures than is typically possible in a regular level I language class. Students need to have an adeptness for applying effective language learning strategies, as demonstrated on a language aptitude test administered prior to enrollment and show a willingness to experience various aspects of the cultures. Students will move quickly through the basic language acquisition skills of listening, speaking, reading, and writing. Within this context, Spanish I Accelerated provides students with opportunities to comprehend new language through dialogues, clip art, rhymes, visuals, and video, practice communication through listening exercises, paired and group activities, and through using technology, answer questions and express personal opinions both verbally and in writing, compare languages and cultures through grammar study, pronunciation, art, and readings in authentic settings, demonstrate all language skills through a variety of tasks and projects presented in the classroom.

reading, writing, listening, and speaking Spanish on a daily basis. The goal of Level II is to expand students' ability to talk about school activities, living in the city, one's daily routine, and other topics that the student might use in real life. As the library of useful vocabulary grows for the student, so does the ability to talk and write about more topics in a more authentic way. The course provides the students with opportunities to comprehend new language through dialogues, clip art, visuals, and video, practice communication through listening exercises, paired activities, and through the use of technology, answer questions and express personal opinions both verbally and in writing, compare languages and cultures through grammar study, pronunciation and cultural information, demonstrate all language skills through a variety of tasks and projects

where Spanish is spoken, as well as about the Spanish-speaking population of the United States.

**Penn# 0421**



**SPANISH III**

**Semesters: 2 Credits: 2**

**Grade Level: 11-12**

**Prerequisite: Spanish II**

**Weight: 4.0 DOE# 2124**

**Course Description:**

Level III takes what the student learned in Levels I and II and builds upon it. We continue to practice the language by reading, writing, listening, and speaking Spanish on a daily basis. The goal of Level III is to expand students' ability to talk about different situations in life. The students explore the world of Spanish art, getting a job, going on vacation, and other authentic situations. As the library of useful vocabulary grows for the student, so does the ability to talk and write about more topics in a more authentic way. Sentence structure becomes more sophisticated. The students talk about the present, the past, and the future. The course provides the students with opportunities to comprehend new language through dialogues, clip art, visuals, and video, practice communication through listening exercises, paired activities, and through the use of the language laboratory, answer questions and express personal opinions both verbally and in writing, compare languages and cultures through grammar study, pronunciation, art, and cultural information, demonstrate all language skills through a variety of tasks and projects, write more in the target language, describe different aspects of the culture using technology where appropriate.

**Penn# 0453**



**SPANISH II ACCELERATED**

**Semesters: 2 Credits: 2**

**Grade Level: 10**

**Prerequisites: Spanish I**

**Accelerated or teacher recommendation**

**Weight: 4.0 DOE# 2122**

**Course Description:**

This accelerated course is designed to continue to prepare the students for the AP Program in their senior year. More material will be covered than in the regular Spanish 2 program with the goal of further enhancing the development of the basic skills of listening, speaking, reading, and writing. Oral proficiency and sentence structure are emphasized. Students continue to learn about the countries

**Penn# 0419**



**SPANISH II**

**Semesters: 2 Credits: 2**

**Grade Level: 10-12**

**Prerequisite: Spanish I**

**Weight: 4.0 DOE# 2122**

**Course Description:**

Level II takes what the student learned in Level I and builds upon it. We continue to practice the language by

**Penn# 0455**



### **SPANISH III ACCELERATED**

**Semesters: 2 Credits: 2**

**Grade Level: 11**

**Prerequisite: Spanish II Accelerated or teacher recommendation**

**Weight: 4.0 DOE# 2124**

#### **Course Description:**

This accelerated course is designed to continue prepare the students for the AP Program in their senior year. More material will be covered than in the regular Spanish 3 program with the goal of further enhancing the development of the basic skills of listening, speaking, reading, and writing. Oral proficiency and sentence structure are emphasized. Students continue to learn about the countries where Spanish is spoken, as well as about the Spanish-speaking population of the United States.

**Penn# 0423**



### **SPANISH IV**

**Semesters: 2 Credits: 2**

**Grade Level: 11-12**

**Prerequisite: Spanish III**

**Weight: 4.0 DOE# 2126**

#### **Course Description:**

Level IV takes what the student learned in Levels I, II, and III and builds upon it. We continue to practice the language by reading, writing, listening, and speaking Spanish on a daily basis. The goal of Level IV, however, is to expand the students' ability to talk about cultural differences in the world. The students explore the history, art, political development, and cultural traditions of Spain, South America, and Central America. As the library of useful vocabulary grows for the

student, so does the ability to talk and write about more topics in a more authentic way in Spanish. Sentence structure becomes even more sophisticated. The students talk about the various countries they study using the verb tenses in Spanish they are practicing or learning. The course provides the students with opportunities to comprehend new language through dialogues, clip art, visuals, and movies, practice communication through listening exercises, paired activities, the use of technology, as well as native speakers, answer questions and express personal opinions both verbally and in writing, compare languages and cultures through grammar study, pronunciation, art, and cultural information, demonstrate all language skills through a variety of tasks and projects, write more in the target language, read more in the target language using both short novels and essays, describe different aspects of the culture using the foreign language.

**Penn# 0424**



### **AP® SPANISH**

**Semesters: 2 Credits: 2**

**Grade Level: 12**

**Prerequisite: Spanish III OR Spanish III Accelerated**

**Weight: 5.0 DOE# 2132**

#### **Course Description:**

Advanced Placement® Spanish enables students to participate in activities beyond the classroom. Students must be willing to participate in conversations, promote the benefits of foreign language study and the study of the cultures in which the language is spoken. In addition, students will be able to initiate and participate in conversations on current or past

events, analyze the main plot, subplot, characters and their descriptions, roles, and significance in authentic literary texts, create stories and poems, short plays, and skits based on themes, ideas, and perspectives from the foreign cultures, summarize the content of an article, a story, and to discuss these topics in Spanish

**Penn# 0418**



### **SPANISH FOR SPANISH**

#### **SPEAKERS\***

**Semesters: 2 Credits: 2**

**Grade Level: 9-12**

**Weight: 4.0 DOE# 2190**

#### **Course Description:**

This course offers native or near-native speakers of Spanish the opportunity to develop, maintain, and enhance proficiency in their home language by reinforcing and acquiring skills in listening, speaking, reading, and writing. The course will enable students to gain a better understanding of the nature of their own language, as well as of other languages in which they might be instructed. It will also teach students to appreciate the depth and diversity of Hispanic culture both in the United States and abroad. In addition, this course will meet the needs of students who speak Spanish, but who have had little or no formal training in it.

*\*This course does not fulfill a world language credit requirement. Students who enroll in this class will receive elective credit only.*

**NOTE: American Sign Language is not counted as World Language credit by all colleges. Students are responsible for checking.**

**Penn# 0437**



## **AMERICAN SIGN LANGUAGE I**

**Semesters: 2 Credits: 2**

**Grade Level: 10-12**

**Weight: 4.0 DOE# 2156**

### **Course Description:**

American Sign Language I introduces American Sign Language (ASL) and the Deaf community. It focuses on frequently used signs through a functional-notional approach and discusses cultural features of the Deaf community. Emphasis is placed on the receptive and expressive skills. In the areas of reading, composition, and receptive and expressive communication skills, students have the opportunity to develop visual acuity, follow brief verbal instructions, understand short statements, questions, and dialogues, originate short descriptions from prompts, read and discuss texts written by Deaf authors about their experiences, read and discuss the history of the Deaf community, begin to understand the current Glossing system used to write ASL. Students also learn to recognize the difference between the pathological and psychological definitions of deafness, dispel common myths associated with deafness and ASL, recognize the widespread use of ASL throughout the United States, and develop an understanding of the intricate relationship between languages and cultures in general.

**Penn# 0439**



## **AMERICAN SIGN LANGUAGE II**

**Semesters: 2 Credits: 2**

**Grade Level: 10-12**

**Prerequisite: American Sign Language I**

**Weight: 4.0 DOE# 2158**

### **Course Description:**

American Sign Language II continues the focus on frequently used signs through a functional-notional approach and the cultural features of the Deaf community. Emphasis is placed on a more advanced level of learning the receptive and expressive communication skills in American Sign Language. In the areas of reading, composition, and receptive and expressive communication skills, students are given opportunities to understand longer and more intricate grammatical features as they occur in context, watch and understand short stories, dialogues, and poetry in ASL, continue to develop visual discrimination, begin to understand various dialects of ASL by interacting with ASL users with the Deaf community, begin to use classifiers appropriately, perform original translations from English to ASL, increase awareness of common experiences within the Deaf community, continue to study the history of ASL and the Deaf community, begin to examine the current linguistic research done in ASL, continue the mastery of the current Glossing system used in texts to write ASL and, begin to write in gloss their own simple dialogues, poetry, and translations

**Penn# 0441**



## **AMERICAN SIGN LANGUAGE III**

**Semesters: 2 Credits: 2**

**Grade Level: 11-12**

**Prerequisite: American Sign Language II**

**Weight: 4.0 DOE# 2162**

### **Course Description:**

American Sign Language III continues to develop expressive and receptive

signing skills as well as cultural awareness. Vocabulary will be reviewed and increased from previous courses. Emphasis will be placed on non-manual grammar. Students will interact with member(s) of the Deaf community. Class will be conducted in ASL; ASL will be the language used by the teacher and students in the classroom.

**Penn# 0443**



## **AMERICAN SIGN LANGUAGE IV**

**Semesters: 2 Credits: 2**

**Grade Level: 12**

**Prerequisite: American Sign Language III**

**Weight: 4.0 DOE# 2164**

### **Course Description:**

American Sign Language IV continues to develop expressive and receptive signing skills. Issues, current or else, in ASL and Deaf culture are shared throughout the course. Students will explore the use of literature and storytelling in ASL. Students will also incorporate non-manual grammatical features and classifiers into their signing. ASL will be used at all times by everyone in the classroom.

**Penn# 0482**

## **AMERICAN SIGN LANGUAGE INTERNSHIP (WBL)**

**Semesters: 1 or 2 Credits: 1 or 2**

**Grade Level: 12**

**Prerequisite: American Sign Language III**

**Weight: 4.0 DOE# 5974**

### **Course Description:**

This class is offered to ASL students that desire to continue in the profession as either a teacher of the Deaf, an interpreter or a speech pathologist. Student will be placed by the

corporation Deaf H/H consult teacher. Placement will be made in coordination to the students availability and age of placement (Level of school k-12) and availability in and outside our corporation. Students will be placed through a screening and will be required to adhere to a contract of conduct.

**Penn# 0447**



**CHINESE I**

**Semesters: 2 Credits: 2**

**Grade Level: 9-12**

**Weight: 4.0 DOE# 2000**

**Course Description:**

This beginning class introduces students to the Chinese Mandarin language and the culture with emphasis on producing modern, authentic communication. In this two-semester course, Hanyu Pinyin will be taught in the first semester. Although the textbook will use simplified Chinese characters, the traditional Chinese characters will also be taught. The course is designed for students who don't know Hanyu Pinyin and have had little exposure to Chinese language. Upon the completion of this course, students will be able to develop basic proficiencies in listening, speaking, reading and writing on the topics studied. Students will also develop understanding of the culture, philosophy and lifestyles of the Chinese speaking countries through learning of the various Chinese festivals, songs and poems, and engaging some cultural activities, games and crafts. Computer-assisted technology and online course materials are an integral part of the instruction in this class.

**Penn# 0449**



**CHINESE II**

**Semesters: 2 Credits: 2**

**Grade Level: 9-12**

**Prerequisites: Chinese I OR heritage language learners (those who come from Chinese or bilingual home background) who know Hanyu Pinyin (PRC) and at least 50 - 100 Chinese Characters.**

**Weight: 4.0 DOE# 2002**

**Course Description:**

The two-semester course is a continuation of Chinese I. The course aims at further developing fundamental language skills. All four skills (speaking, reading, listening and writing) will be emphasized and learned in communicative context. Students are expected to actively participate in class by engaging in interactive activities and reading and writing practices. Both simplified and traditional Chinese character forms will be taught in class. Students will also develop understanding of the culture, philosophy and lifestyles of the Chinese speaking countries through learning of the various Chinese festivals, songs and poems, and engaging some cultural activities, games and crafts. Upon the completion of this course, students will develop oral proficiencies in topics studied. They will be able to read and write paragraphs, statements, and dialogues. Computer-assisted technology and online course materials are an integral part of the instruction in this class.

**Penn# 0457**



**CHINESE III**

**Semesters: 2 Credits: 2**

**Grade Level: 10-12**

**Prerequisites: Chinese II**

**Weight: 4.0 DOE# 2004**

**Course Description:**

The two-semester course is continuation of Chinese 2. While continuing to strengthen the skills of speaking, writing, listening, and reading with Mandarin Chinese, the course also continue to incorporate the study of Chinese culture and history. By increasing students' vocabulary and their knowledge of sentence patterns, the course will promote students to obtain advanced reading and writing skill. Level III Chinese is also designed to improve students' abilities to communicate effectively and appropriately in real life social contexts. In addition, some computer-assisted technology and online course materials are an integral part of the instruction to enhance oral and listening proficiency. Students who are interested in taking Chinese SAT II subject test currently or in the future year will get help in learning about the test and preparing the test.

**Penn# 0467**



**CHINESE IV**

**Semesters: 2 Credits: 2**

**Grade Level: 11-12**

**Prerequisites: Chinese III**

**Weight: 4.0 DOE# 2006**

**Course Description:**

This course provides intermediate-level training in spoken and written Chinese in cultural context, based on language skills developed in Chinese III. By increasing students' vocabulary and their knowledge of sentence patterns, the course focuses on speaking and writing in coherent and well-formed paragraphs. By the end of the semester students should be able to (1) carry out rather fluent conversations about daily activities, (2) write compositions of 300-500 characters on

subjects of their daily life and personal experiences. The course is also designed to improve students' abilities to communicate effectively and appropriately in real life social contexts. In addition, some computer-assisted technology and online course materials are an integral part of the instruction to enhance oral and listening proficiency. Students who are interested in taking Chinese SAT II subject test will get help in identifying their strength and weakness in four aspects through some practice material. With the assistance from the teacher, students will develop a study plan so as to ensure the success of the Chinese SAT II subject test.

writing assignments and tests. Students should be able to achieve the following objectives Develop communicative competence in listening, speaking, reading, and writing skills, Understand the textbook lessons and supplementary materials and participate in discussions of the cultural aspects of the readings in Chinese. Use the knowledge gained through course materials to develop critical thinking and writing skills to compose essays in Chinese on given topics, Use the Chinese language to communicate effectively both in the school setting and in real-life situations, Use the Chinese language as they seek clarifications through the use of communication and language learning strategies that are running elements of the course, and carry on a conversation or a discussion with other students in class.

**Penn# 0469**



**AP® CHINESE**

**Semesters: 2 Credits: 2**

**Grade Level: 12**

**Prerequisite: Chinese III**

**Weight: 5.0 DOE# 2014**

**Course Description:**

Advanced Placement® Chinese Language & Culture course is continuation of Chinese 3. The course objective is to further improve students' proficiency in listening, speaking, reading, and writing skills to be ready for the AP® Chinese exam held every May. Students enrolled in this course will also have the maximum exposure to Chinese cultural elements that are integrated in the process of learning the language. The primary goal of this course is to enable students to communicate through the exploration of topics reflecting multiple aspects of Chinese society and culture. Each unit of study comprises vocabulary, sentence patterns, text analysis, application of vocabulary and patterns, supplementary reading, and finally,

## **WORK BASED LEARNING (WBL)**

**Penn# 0680, 0681, 0682, 0683, 0684, 0685, 0686, 0687- 1 block 0674, 0675, 0679- 2 blocks**

### **WORK BASED LEARNING INTERNSHIP (WBL)**

**Semesters: 1 or 2**

**One Block: 1 credit per semester**

**Two Blocks: 2 credits per semester**

**Grade Level: 11-12**

**Prerequisite: One CTE Course**

**Weight: 4.0 IDOE: 5974**

#### **Course Description:**

**Students must provide their own transportation.** Professional Career Internship is a career course that is designed to provide opportunities for students to explore careers that require additional degrees, certifications or training beyond high school. The emphasis of the experience is on applying skills developed through instruction from an adult mentor and learning new career competencies at the internship site. Activities can be tailored to the unique needs and interests of the students. Internships may be paid or unpaid. A teacher monitors students in their field experiences. Students should enroll in the Internship class because the program provides an opportunity for a student to experience all aspects of "real world" requirements for success and the program is a means of linking academic learning with career and community experiences. As part of this Work-Based Learning experience, students will complete a number of components resulting in a portfolio.

**Penn# 1603**

**PEER LEADERS (WBL)**

**Semesters: 2 Credits: 2**

**Grade Level: 10-12**

**Prerequisite: Interview with course instructor**

**Weight: 4.0 IDOE: 5974**

#### **Course Description:**

This course is designed to give high school students the opportunity to interact with and learn about people with disabilities. Students will provide 5 blocks over two weeks of in-class and/or community based instruction to students with moderate and severe disabilities under the personal supervision and direction of the course instructor or classroom teaching staff.

**Penn# 1611**

**PEER LEADERS- YAP (WBL)**

**Semesters: 2 Credits: 2**

**Grade Level: 11-12**

**Prerequisite: Peer Leaders- 1603**

**Weight: 4.0 IDOE: 5974**

#### **Course Description:**

This course is designed to give high school students the opportunity to interact with people with disabilities and learn how to work with them. Students will provide 5 blocks over two weeks of in-class and/or community based instruction to students with moderate and severe disabilities in the Young Adult Program under the personal supervision and instruction of the YAP director.

**Penn# 0661 BBBS: 0662**

**KINGSMEN TUTOR INTERNSHIP**

**(WBL)**

**Semesters: 2 Credits: 2 Grade**

**Level: 11-10**

**Prerequisite: Application, interview, teacher recommendations, clean disciplinary and attendance record**

**Weight: 4.0 IDOE: 5974**

#### **Course Description:**

Kingsmen Tutor Internship provides students with opportunities to tutor peers and assist a teacher during the school year in the classroom. Tutors will receive training and attend monthly meetings with the Kingsmen Tutor Leaders. If you take second semester for no credit then this internship is considered volunteer experience, earning approximately 70 volunteer hours in the semester. Many college admission offices and scholarship committees are looking for this kind of long term service. We strongly advise you to take this class as an elective, but it can also be taken in place of a study hall. The grade will be based on homework assignments, attendance and teacher evaluations. Kingsmen Tutors will be placed in classrooms for various subjects including but not limited to foreign language, Algebra I and II, Geometry, Biology, ICP, English and Chemistry.

**Penn# 1869**

**COMMUNICATION & PUBLIC**

**RELATIONS INTERNSHIP (WBL)**

**Semesters: 2 Credits: 2 Grade**

**Level: 10-12**

**Weight: 4.0 IDOE: 5974**

#### **Course Description:**

This internship – which is focused on promoting the events and people of Penn High School and the Penn-Harris-Madison School Corporation – is designed for students who wish to apply the practices of public relations (written and visual) in order to gain experience and build a portfolio. Students should already have a strong understanding of writing, journalistic and public relations principles, or students need to have strong graphic design/videography skills and a command of Adobe

Photoshop, Adobe Illustrator, InDesign, and/or videography skills, including Adobe Premiere Pro. Students will implement media relations strategies such as crafting press releases, writing news/features articles, or producing graphic designs or videos to promoting Penn/P-H-M events/people through social/traditional media.

**Penn# 1239 1240 1241 1242 1243**

**1244 1245 1246**

**WORK EXPERIENCE (WBL)**

**Semesters: 2 Variable Credit**

**Grade Level: 11-12**

**Prerequisites: Must be recommended in the Individual Education Plan.**

**Weight: 4.0**

**DOE: 5974A or 5974**

**Course Description:**

These courses are designed to give students in exceptional education an opportunity to gain work experience through in school or community jobs. This program provides the first opportunity for students to experience real world requirements for success in the workplace. Job coaching and frequent evaluations are used to teach students employability/workforce readiness skills (communication, organization, teamwork, punctuality, critical thinking/problem solving, social cues, adaptability and work ethic). Placement is made on the recommendation of the case conference committee.

**Penn# 0161**

**TV BROADCAST INTERNSHIP (WBL)**

**Semesters: 2 Credits: 2 Grade**

**Level: 12**

**Weight: 4.0 DOE# 5974**

**Course Description:**

In this class, students may develop media literacy through instruction and practice, and they engage in all facets

of production in the PNN television studio. Students may also participate in a professional internship with local Media companies. Members of the class produce a variety of projects in the studio, and they take them from concept to complete. Students develop a portfolio of work that includes television productions, news segments, music videos, public service announcements, commercial spots, live broadcasts, and multimedia stories. Students gain experience in all aspects of production in the PNN television studio, and they sometimes produce news shows for [pnn.phmschools.org](http://pnn.phmschools.org). This publications class lays the groundwork for further study in this field and other publications classes such as MASS MEDIA / TECH COMM II, 0371. More information can be found at [massmediastudies.net](http://massmediastudies.net).

**Penn# 1864 (1860 -0 credit)**

**THEATER INTERNSHIP (WBL)**

**Semesters: 2 Credits: 2**

**Grade Level: 10-12**

**Weight: 4.0 DOE# 5974**

**Course Description:**

This internship focuses on theatre management, giving students hands-on experience maintaining and preparing both a proscenium stage theatre and a black box theatre. Students will learn how to do basic maintenance with audio and visual cables, hang and focus lighting equipment, place and route sound on stage, troubleshoot control surfaces, build sets, and learn the inner workings of a theatre.

**Penn# 1850**

**OFFICE STUDENT INTERNSHIP**

**(WBL)**

**Semesters: 1 or 2**

**Credit: 1 per semester of completion**

**Grade Level: 11-12**

**Weight: 4.0 DOE# 5974**

**Course Description:**

**Athletic & Student Activity Office, Bookstore, Academy Offices, Counseling Office, IMC, Main Office.**

Penn High School Office Internships provide opportunities for students to assume office assistant duties and responsibilities within the school building. Students are expected to conduct themselves in accordance with a professional office setting. Students must report on time, always meet the PHS dress code, must always display PHS ID, follow directions from adult supervisors, properly greet visitors, and meet all other high school office rules and expectations. Specific responsibilities may vary from office to office. Some of the required responsibilities, for all students, include completion of writing assignments, career research assignments and creating a professional correspondence letter. In order to be one of the office student interns in Athletics/Student Activity, Bookstore, Division Offices, Guidance Office, IMC and the Main Office, students must enroll in course 1850.

**Penn# 0482**

**AMERICAN SIGN LANGUAGE**

**INTERNSHIP (WBL)**

**Semesters: 1 or 2 Credits: 1 or 2**

**Grade Level: 12**

**Prerequisite: American Sign Language III**

**Weight: 4.0 DOE# 5974**

**Course Description:**

This class is offered to ASL students that desire to continue in the profession as either a teacher of the Deaf, an interpreter or a speech pathologist. Student will be placed by the corporation Deaf H/H consult teacher. Placement will be made in coordination

to the students availability and age of placement (Level of school k-12) and availability in and outside our corporation. Students will be placed through a screening and will be required to adhere to a contract of conduct.

**Penn# 0677**

**PENN FIRST ROBOTICS  
INTERNSHIP I (WBL)**

**Semesters: 2 Credits: 2**

**Grade Level: 11-12**

**Prerequisite: Application required**

**Weight: 4.0 DOE# 5974**

**This course is weighted on a 4.5 scale if taken with Automation & Robotics I.**

**Course Description:**

This course is offered as a 0 hour class. Students will report to class outside of the school day. Classes will meet at 7:30am on Gold Days and 3:30pm to 5:30 pm one day per week.

This class is offered in conjunction with the Automation & Robotics I & II classes. Robotics Internship students participate in Penn's school-based enterprise "*The Black Knight*" FRC Robot in all facets of operations, including marketing, fundraising, and community outreach. Students that successfully complete both classes *Automation & Robotics and Penn FIRST Robotics Internship* will receive a weighted grade.

**\*Students should plan to take both Automation & Robotics I as well as Penn FIRST Robotics Internship I.**

**Penn# 0678**

**PENN FIRST ROBOTICS  
INTERNSHIP II (WBL)**

**Semesters: 2 Credits: 2**

**Grade Level: 11-12**

**Prerequisite: Penn First Robotics**

**Internship I AND Application**

**Weight: 4.0 DOE# 5974**

***This course is weighted on a 4.5 scale if taken with Automation & Robotics II.***

**Course Description:**

This course is offered as a 0 hour class. Students will report to class outside of the school day. Classes will meet at 7:30am on Gold Days and 3:30pm to 5:30 pm one day per week. This class is offered in conjunction with the Automation & Robotics I & II classes. Robotics Internship students participate in Penn's school-based enterprise "*The Black Knight*" FRC Robot in all facets of operations, including marketing, fundraising, and community outreach. Students that successfully complete both classes *Automation & Robotics and Penn FIRST Robotics Internship* will receive a weighted grade.

**\*Students should plan to take both Automation & Robotics II as well as Penn FIRST Robotics Internship II.**

## Penn High School 4 + 4 Year Worksheet\*

Grade 9	Grade 10	Grade 11	Grade 12
English 9 (Honors)	English 10 (Honors)	English 11 (Honors/AP)	English 12 (ACP/AP/Ivy Tech)
Math (Honors)	Math (Honors)	Math (Acc./Honors/AP/AC P/Ivy Tech)	Math (ACP/AP/Ivy Tech)
Biology (Honors)	ICP or Chem. (Honors)	Science	Science
Geography Hist. of the World (Honors)	Health Elective	US History (AP/ACP/Ivy Tech)	US Gov./Econ (AP/ACP)
Physical Education	Achievement Academy Elective	Achievement Academy Elective	Achievement Academy Elective
Elective	Elective	Elective	Elective
Elective	Elective	Elective	Elective
PCC & Intro to Communication	Interactive Media	Internship/Dual Credit/Study Hall	Internship/Dual Credit/Study Hall

## Post-secondary

	Two Year College	Vocational Training Apprenticeship	Four Year College
Schools of Interest			
Area of Interest			

\*This plan will be reviewed and updated annually!

\*\*Indiana requires two credits of Mathematics or Quantitative Reasoning junior or senior year to earn a diploma.

My Achievement Academy:   Fine Arts/Communication   STEM   MBA   Health & Human Services

EDUCATION AND TRAINING		Education Careers	
Early Childhood		Wyt 111 & PCC	
Nutrition and Wellness	Child Development	Child Development	Advanced Child Development
Child Development	Advanced Child Development	Interpersonal Relationships / Personal Management	Interpersonal Relationships / Personal Management
Advanced Child Development	Interpersonal Relationships / Personal Management	Education Professions I	Education Professions I
Interpersonal Relationships / Personal Management	EACC- Early Childhood Education	Business Related Classroom Experience Capstone Course	
EACC- Early Childhood Education	EACC- Early Childhood Education	Work Based Learning Capstone, Multiple Pathways	

MANUFACTURING & LOGISTICS

MANUFACTURING & LOGISTICS						
Advanced Manufacturing	Electronics	Engineering	Logistics & Supply Chain Management	Machine Technology	Machine Tool	Welding
Computers in Design & Production	Computers in Design & Production	Computers in Design & Production	Introduction to Business	Computers in Design and Production	Computers in Design & Production	Computers in Design and Production
FIRST Tech Challenge IED-FTC 9	Introduction to Engineering and Design (IED)	FIRST Tech Challenge IED-FTC 9	Business Law and Ethics	0625 Prior to 2018 / EACC- Machine Shop	Architectural Drafting and Design I & EACC Mfg & Eng	Introduction to Engineering and Design (IED)
FIRST Tech Challenge POE-FTC 10	FIRST Tech Challenge IED-FTC 9	Introduction to Engineering and Design (IED)		0627 Prior to 2018 / EACC- Machine Shop	0625 Prior to 2018 / EACC- Machine Shop	FIRST Tech Challenge IED-FTC 9
Principles of Engineering (POE)	Architectural Drafting and Design I & EACC Mfg & Eng	FIRST Tech Challenge POE-FTC 10		0627 Prior to 2018 / EACC- Machine Shop	0627 Prior to 2018 / EACC- Machine Shop	Architectural Drafting and Design I & EACC Mfg & Eng
Architectural Drafting and Design I & EACC Mfg & Eng	Automation and Robotics II / Automation & Eng Tech.	Principles of Engineering (POE)				Welding Technology I
Advanced Manufacturing I (2018-2019 on)	PLTW Digital Electronics (DE)	Non PLTW Civil Engineering and Architecture				Welding Technology II
Advanced Manufacturing II (2018-2019 on)	Automation and Robotics I / EACC- Automation and Eng Technology	Computer Science I				
		Architectural Drafting and Design I & EACC Mfg & Eng				
		Automation and Robotics II / Automation & Eng Tech.				
		PLTW Civil Engineering and Architecture (CEA)				
		PLTW Digital Electronics (DE)				
		PLTW Aerospace Engineering (AE)				
		Engineering Design and Development PLTW				
		Automation and Robotics I / EACC- Automation and Eng Technology				
						Business Related Classroom Experience Capstone Course
						Work Based Learning Capstone, Multiple Pathways
						Penn FIRST Robotics Internship (before 2018-2019) / Graphic Design Internship

TRANSPORTATION AND LOGISTICS						
Automotive Collision	Automotive Technology	Aviation Flight & Operations	Aviation Maintenance	Diesel Services Technology	Recreation & Mobile Equipment	Tractor Trailer Operations
EACC- Automotive Collision Repair	EACC- Automotive Technology	FIRST Tech Challenge IED-FTC 9	FIRST Tech Challenge IED-FTC 9	EACC- Diesel Service Tech	Motorcycle/Outdoor Power Technology	EACC- Automotive Service Technology
EACC- Automotive Refinishing	EACC- Automotive Technology	Introduction to Engineering and Design (IED)	Introduction to Engineering and Design (IED)	EACC- Diesel Service Tech	Motorcycle/Outdoor Power Technology	EACC- Automotive Collision Repair
		FIRST Tech Challenge POE-FTC 10	FIRST Tech Challenge POE-FTC 10			EACC- Automotive Refinishing
		PLTW Aerospace Engineering (AE)	PLTW Aerospace Engineering (AE)			EACC- Automotive Service Technology
		Business Related Classroom Experience Capstone Course				
		Work Based Learning Capstone, Multiple Pathways				
PUBLIC SAFETY						
Criminal Justice		EMT/Paramedic			Fire & Rescue	
		IvyT 111 & PCC				
Interpersonal Relationships / Personal Management		Human Development and Wellness		Interpersonal Relationships / Personal Management		
EACC- Law Enforcement		EACC- Intro Health Career / EACC- Medical Assisting		EACC- Firefighting		
EACC- CSI Crime Scene Investigation		EACC- Cardiology / EACC- EMT		EACC- Cardiology / EACC- EMT		
		EACC- Firefighting				
		Business Related Classroom Experience Capstone Course				
		Work Based Learning Capstone, Multiple Pathways				

ARCHITECTURE & CONSTRUCTION						
Architectural	Building and Facility Maintenance	Commercial & Residential Facilities Management	Construction	Electrical	Heavy Equipment	HVAC
Computers in Design & Production	Introduction to Communication	Introduction to Construction	Introduction to Construction	Introduction to Construction	Introduction to Construction	Computers in Design & Production
FIRST Tech Challenge IED-FTC 9	Introduction to Construction	Introduction to Housing and Interior Design	Construction Trades & EACC Construction Trades	Vocational Building Trades I & EACC Construction Trades	Vocational Building Trades I & EACC Construction Trades	Introduction to Design Processes
Introduction to Engineering and Design (IED)	Vocational Building Trades I & EACC Construction Trades		Vocational Building Trades I & EACC Construction Trades		Vocational Building Trades I & EACC Construction Trades	FIRST Tech Challenge IED-FTC 9
Introduction to Design Processes						Introduction to Design Processes
Introduction to Housing and Interior Design						
FIRST Tech Challenge POE-FTC 10						
Principles of Engineering (POE)						
Architectural Drafting and Design I & EACC Drafting						
Architectural Drafting and Design II & EACC Drafting						
Business Related Classroom Experience Capstone Course						
Work Based Learning Capstone, Multiple Pathways						
AGRICULTURE						
Agribusiness	Animal Science	Food Science	Horticulture & Landscape	Natural Resources		
				PCCIVYT 111		
Introduction to Agriculture, Food and Natural Resources						
Animal Sciences	Animal Sciences	Nutrition and Wellness	Horticultural Science OR Floral Design- EACC	Natural Resources		
Agribusiness Management	Advanced Life Science: Animals	Advanced Nutrition and Wellness	Landscape Management I OR Landscape Management- EACC			
Agriculture Mechanics- EACC			Floral Design- EACC			
Work Based Learning, Multiple Pathways						

HOSPITALITY & HUMAN SERVICES				
Cosmetology	Culinary Arts		Hospitality Management	Human & Social Services
Introduction to Business	Nutrition and Wellness	IvyT 111 & PCC	Nutrition and Wellness	Nutrition and Wellness
Interpersonal Relationships / Personal Management	Introduction to Culinary Arts and Hospitality		Introduction to Culinary Arts and Hospitality	Introduction to Business
Nutrition and Wellness	Advanced Nutrition and Wellness		Introduction to Business	Advanced Nutrition and Wellness
Advanced Nutrition and Wellness	Interpersonal Relationships / Personal Management		Advanced Nutrition and Wellness	Child Development
Cosmetology / EACC- Cosmetology	Culinary Arts and Hospitality Management & EACC- Cul Art & Hosp		Interpersonal Relationships / Personal Management	Human Development and Wellness
Cosmetology / EACC- Cosmetology	EACC- Culinary Arts and Hospitality		Culinary Arts and Hospitality Management & EACC- Cul Art & Hosp	Interpersonal Relationships / Personal Management
				Adult Roles and Responsibilities / Community Living
Business Related Classroom Experience Capstone Course				
Work Based Learning Capstone, Multiple Pathways				

INFORMATION TECHNOLOGY				
Computer Science	Networking	PC Support/IT Technology	Programming	
Introduction to Computer Science CINS 101 Intro to Microcomputers	Introduction to Computer Science CINS 101 Intro to Microcomputers	Introduction to Computer Science CINS 101 Intro to Microcomputers	CINS 101 Intro to Microcomputers Computer Science I	CINS 101 Intro to Microcomputers Computer Science I
Computer Science I	Computer Science I	Computer Science I	Computer Science II: Programming Network PC Support	Computer Science II: Programming Projects, Game & Design
Computer Science II: Programming	Computer Tech Support / EACC- Comp Network PC Support	Computer Tech Support / EACC- Comp Network PC Support	EACC- Computer Networking PC Maintenance	Computer Science II: Special Topics Projects, Game & Design
Computer Science II: Special Topics Projects, Game & Design	EACC- Computer Networking PC Maintenance	EACC- Computer Networking PC Maintenance	EACC- Computer Networking PC Maintenance	EACC- Computer Networking PC Maintenance
		Business Related Classroom Experience Capstone Course		
		Work Based Learning Capstone, Multiple Pathways		

## STEM

### Engineering

IvyT 111 & PCC

Computers in Design & Production

FIRST Tech Challenge IED-FTC 9

Introduction to Engineering and Design (IED)

FIRST Tech Challenge POE-FTC 10

Principles of Engineering (POE)

Non PLTW Civil Engineering and Architecture

Computer Science I

Architectural Drafting and Design I & EACC Mfg & Eng

Automation and Robotics II / Automation & Eng Tech.

PLTW Civil Engineering and Architecture (CEA)

PLTW Digital Electronics (DE)

PLTW Aerospace Engineering (AE)

Engineering Design and Development PLTW

Automation and Robotics I / EACC- Automation and Eng Technology

Business Related Classroom Experience Capstone Course

Work Based Learning Capstone, Multiple Pathways

Penn FIRST Robotics Internship (before 2018-2019) / Graphic Design Internship

BUSINESS AND MARKETING					
Accounting and Finance	Entrepreneurship & Management, Business Management focus	Entrepreneurship & Management, Entrepreneurship focus	Marketing Management, Hospitality & Tourism	Marketing Management, Marketing	Marketing Management, Sports and Entertainment
CINS 101 Intro to Microcomputers	CINS 101 Intro to Microcomputers	Introduction to Business			
Introduction to Business	Introduction to Business	Introduction to Business	Introduction to Business	Introduction to Business	Principles of Marketing
Introduction to Accounting	Introduction to Accounting	Introduction to Accounting	Principles of Marketing	Principles of Marketing	Sports and Entertainment Marketing
Principles of Business Management	Principles of Marketing	Principles of Business Management	Business Law and Ethics	Principles of Marketing	Strategic Marketing
Business Law and Ethics	Principles of Business Management	Principles of Marketing	Business Law and Ethics	Strategic Marketing	Business Law and Ethics
Advanced Accounting	Business Law and Ethics	Principles of Marketing	Business Law and Ethics	Strategic Marketing	Business Law and Ethics
Banking and Investment Capstone	Advanced Accounting	Business Law and Ethics	Business Law and Ethics	Strategic Marketing	Business Law and Ethics
Entrepreneurship and New Ventures Capstone & Startup Moxie	Entrepreneurship and New Ventures Capstone & Startup Moxie	Advanced Accounting	Sports and Entertainment Marketing	Business Law and Ethics	
		Entrepreneurship and New Ventures Capstone & Startup Moxie	Entrepreneurship and New Ventures Capstone & Startup Moxie	Business Related Classroom Experience Capstone Course	
				Office Student Internship & TV Broadcast Intern & CSI	
				Work Based Learning Capstone, Multiple Pathways	

ARTS, AV TECHNOLOGY AND COMMUNICATION					
Commercial Photography	Fashion , Textiles & Design	Interactive Media	Radio/TV	Visual Communication	
Introduction to Communication	Introduction to Fashion and Textiles	IVYT 111 & PCC	Introduction to Communication	Introduction to Communication	
Introduction to Design Processes	Introduction to Design Processes	Interactive Media	Radio & Television I & EACC- Audio Video Production	EACC- Commercial Photography	
EACC- Commercial Photography	Fashion and Textile Careers I	EACC- Graphic Design	EACC- Graphic Design	Interactive Media	
EACC- Commercial Photography & EACC Graphic Design	EACC- Graphic Design	Web Design	Radio & Television II & Telecom Intern & EACC- A/V Prod.	EACC- Graphic Design	
	Fashion Merchandising OR Fashion & Textile Careers II	EACC- Commercial Photography & EACC Graphic Design	Web Design	EACC- Commercial Photography & EACC Graphic Design	
				Fashion Merchandising OR Fashion & Textile Careers II	
					Business Related Classroom Experience Capstone Course
					Work Based Learning Capstone, Multiple Pathways

### Course Fees

Course # and Title	Fee Type	Fee
0101 Painting I	Supplement	\$15.00
0102 Painting II	Supplement	\$15.00
0103 Painting III	Supplement	\$15.00
0104 Painting IV	Supplement	\$15.00
0105 Painting V	Supplement	\$15.00
0106 Painting VI	Supplement	\$15.00
0109 Ceramics I	Supplement	\$20.00
0110 Ceramics II	Supplement	\$20.00
0111 Ceramics III	Supplement	\$20.00
0112 Ceramics IV	Supplement	\$20.00
0113 Ceramics V	Supplement	\$20.00
0114 Ceramics VI	Supplement	\$20.00
0115 Ceramics VII	Supplement	\$20.00
0116 Ceramics VIII	Supplement	\$20.00
0117 Drawing I	Supplement	\$15.00
0118 Drawing II	Supplement	\$15.00
0119 Drawing III	Supplement	\$15.00
0120 Drawing IV	Supplement	\$15.00
0121 Drawing V	Supplement	\$15.00
0122 Drawing VI	Supplement	\$15.00
0125 Sculpture I	Supplement	\$17.50
0126 Sculpture II	Supplement	\$17.50
0127 Sculpture III	Supplement	\$17.50
0128 Sculpture IV	Supplement	\$17.50
0129 Sculpture V	Supplement	\$17.50
0130 Sculpture VI	Supplement	\$17.50
0131 Sculpture VII	Supplement	\$17.50
0132 Sculpture VIII	Supplement	\$17.50
0133 Graphic Design I	Supplement	\$15.00
0134 Graphic Design II	Supplement	\$15.00
0135 Graphic Design III	Supplement	\$12.50
0136 Graphic Design IV	Supplement	\$12.50

0137 Graphic Design V	Supplement	\$12.50	
0138 Graphic Design VI	Supplement	\$12.50	
0139 Graphic Design Internship	Supplement	\$25.00	
0141 Photography I	Supplement	\$17.50	
0142 Photography II	Supplement	\$17.50	
0143 Photography III	Supplement	\$17.50	
0144 Photography IV	Supplement	\$17.50	
0149 2-D Design	Supplement	\$20.00	
0150 3-D Design	Supplement	\$20.00	
0151 Advanced 2D Art (Juniors)	Supplement	\$17.50	
0152 Advanced 2D Art (Juniors)	Supplement	\$17.50	
0153 AP Studio Art Drawing (Seniors)	AP Test	\$94.00	
0153 AP Studio Art Drawing (Seniors)	Supplement	\$35.00	
0154 AP Studio Art 2D Design (Seniors)	AP Test	\$94.00	
0154 AP Studio Art 2D Design (Seniors)	Supplement	\$35.00	
0155 Art History	Supplement	\$7.50	
0156 Advanced Art History	Supplement	\$7.50	
0157 Advanced 3D Art	Supplement	\$17.50	
0158 Advanced 3D Art	Supplement	\$17.50	
0165 AP Art History	AP Test	\$94.00	
0165 AP Art History	Paperback	\$25.00	
0165 AP Art History	Supplement	\$25.00	
0167 Printmaking	Supplement	\$20.00	
0169 Portfolio Exit Project	Supplement	\$20.00	
0171 Entertainment Design I	Supplement	\$12.50	
0171 Entertainment Design I	Textbook	\$8.23	
0172 Entertainment Design II	Supplement	\$12.50	
0173 AP Studio Art Photo	AP Test	\$94.00	
0173 AP Studio Art Photo	Supplement	\$35.00	
0175 AP Studio Art I 3D Sculpture	AP Test	\$94.00	
0175 AP Studio Art I 3D Sculpture	Supplement	\$35.00	
0177 Entertainment Design III	Supplement	\$17.50	
0178 Entertainment Design IV	Supplement	\$17.50	
0183 Visual Communication	Supplement	\$17.50	
0184 Visual Communication	Supplement	\$17.50	
0203 Intro Computer Science	Supplement	\$3.00	
0204 Intro Computer Science	Supplement	\$3.00	

0205 Computer Illustration and Graphics	Supplement	\$10.00	
0207 Personal Financial Responsibility	Supplement	\$2.00	
0208 Personal Financial Responsibility	Supplement	\$2.00	
0209 Business Law and Ethics	Textbook	\$3.00	
0211 Introduction to Entrepreneurship	Supplement	\$5.00	
0222 Computer Science III Cybersecurity	Supplement	\$3.00	
0212 Introduction to Entrepreneurship	Supplement	\$5.00	
0213 Introduction to Accounting I	Workbook	\$35.00	
0213 Introduction to Accounting I	Workbook	\$40.00	
0215 Advanced Accounting	Supplement	\$6.00	
0215 Advanced Accounting	Workbook	\$41.00	
0217 Computer Science I	Supplement	\$3.00	
0219 Computer Science II- Programming	Supplement	\$3.00	
0221 Computer Programming II-Special Topics	Supplement	\$5.00	
0223 ACP Cadet Teaching Experience	Supplement	\$6.00	
0223 ACP Cadet Teaching Experience	Textbook	\$9.40	
0225 Professional Business Career Experience (class)	Supplement	\$5.00	
0229 Principles of Marketing	Supplement	\$2.00	
0231 Advanced Cadet Teaching	Supplement	\$2.00	
0231 Advanced Cadet Teaching	Textbook	\$9.15	
0233 Strategic Marketing	Supplement	\$4.00	
0235 Introduction to Business	Supplement	\$5.00	
0236 Introduction to Business	Supplement	\$5.00	
0237 Principles of Business Management	Supplement	\$5.00	
0239 Networking I	Supplement	\$15.00	
0255 Sports and Entertainment Marketing	Supplement	\$6.00	
0261 AP Computer Science Principles	AP Test	\$94.00	10th Grade Only
0261 AP Computer Science Principles	Supplement	\$3.00	
0265 ACP Advanced Business Management	Supplement	\$2.00	
0265 ACP Advanced Business Management	Textbook	\$19.78	
0266 ACP Advanced Business Management	Supplement	\$2.00	
0266 ACP Advanced Business Management	Textbook	\$19.78	
0267 Banking & Invest Capstone	Supplement	\$2.00	
0269 Digital Applications & Resp	Supplement	\$3.00	
0270 Digital Applications & Resp	Supplement	\$3.00	
0301 English 9	Paperback	\$29.00	
0301 English 9	Supplement	\$5.00	

0305 English 9 Honors	Paperback	\$31.00	
0305 English 9 Honors	Supplement	\$5.00	
0307 English 10	Paperback	\$29.00	
0307 English 10	Supplement	\$5.00	
0311 English 10 Hon	Paperback	\$31.00	
0311 English 10 Hon	Supplement	\$5.00	
0313 English 11	Paperback	\$30.00	
0313 English 11	Supplement	\$5.00	
0315 AP English Language 11	AP Test	\$94.00	10th Grade Only
0315 AP English Language 11	Paperback	\$40.00	
0315 AP English Language 11	Supplement	\$5.00	
0320 English 11 Honors Seminar	Paperback	\$30.00	
0320 English 11 Honors Seminar	Supplement	\$5.00	
0321 English 12	Paperback	\$30.00	
0321 English 12	Supplement	\$5.00	
0325 ACP Composition - W131	Paperback	\$22.00	
0325 ACP Composition - W131	Supplement	\$5.00	
0325 ACP Composition - W131	Textbook	\$68.49	
0326 ACP Literature - L202	Paperback	\$22.00	
0326 ACP Literature - L202	Supplement	\$5.00	
0326 ACP Literature - L202	Textbook	\$85.99	
0327 AP English Language Seminar	AP Test	\$94.00	10th Grade Only
0327 AP English Language Seminar	Paperback	\$40.00	
0327 AP English Language Seminar	Supplement	\$5.00	
0329 AP English Literature	AP Test	\$94.00	10th Grade Only
0329 AP English Literature	Paperback	\$36.00	
0329 AP English Literature	Supplement	\$5.00	
0333 Journalism	Supplement	\$5.00	
0337 Student Media-Yearbook	Supplement	\$5.00	
0339 Creative Writing	Supplement	\$3.50	
0340 Composition	Supplement	\$3.50	
0341 Student Media-Spectrum	Supplement	\$7.00	
0343 Theatre Arts I	Supplement	\$12.50	
0344 Theatre Arts II	Supplement	\$12.50	
0345 Advanced Theatre Arts I	Supplement	\$12.50	
0346 Advanced Theatre Arts II	Supplement	\$12.50	
0347 Technical Theatre I	Supplement	\$12.50	

0348 Technical Theatre II	Supplement	\$12.50	
0349 Debate I	Supplement	\$20.00	
0351 Ivy Tech Comm 101 - Speech	Supplement	\$5.00	
0352 Ivy Tech Comm 101 - Speech	Supplement	\$5.00	
0353 Critical Thinking & Argumentation	Supplement	\$5.00	
0355 Developmental Reading I	Supplement	\$8.00	
0369 Radio & Television 1	Supplement	\$10.00	
0371 Radio & Television II & Telecommunication Inter	Supplement	\$10.00	
0373 Film Literature	Supplement	\$7.50	
0379 Developmental Reading II	Supplement	\$8.00	
0381 Advanced Technical Theatre I	Supplement	\$12.50	
0382 Advanced Technical Theatre II	Supplement	\$12.50	
0383 Advanced Acting I	Supplement	\$12.50	
0384 Advanced Acting II	Supplement	\$12.50	
0393 Sports Journalism	Supplement	\$10.00	
0397 Themes in Literature- Mythology	Paperback	\$15.00	
0397 Themes in Literature- Mythology	Supplement	\$5.00	
0398 Ivy Tech 111	Paperback	\$20.00	
0398 Ivy Tech 111	Supplement	\$7.50	
0399 Ivy Tech 111/112	Textbook	TBD	
0399 Ivy Tech 112	Supplement	\$7.50	
0401 French I	Supplement	\$5.00	
0401 French I	Textbook	\$25.66	
0403 French II	Supplement	\$5.00	
0403 French II	Textbook	\$25.66	
0405 French III	Supplement	\$5.00	
0405 French III	Workbook	\$18.70	
0407 French IV	Paperback	\$25.00	
0407 French IV	Supplement	\$5.00	
0408 AP French	AP Test	\$94.00	
0408 AP French	Paperback	\$11.00	
0408 AP French	Supplement	\$5.00	
0409 German I	Supplement	\$5.00	
0409 German I	Textbook	\$34.40	
0411 German II	Supplement	\$5.00	
0411 German II	Textbook	\$34.40	

0413 German III	Paperback	\$36.50	
0413 German III	Supplement	\$5.00	
0415 German IV	Paperback	\$56.50	
0415 German IV	Supplement	\$5.00	
0416 AP German	AP Test	\$94.00	
0416 AP German	Paperback	TBD	
0416 AP German	Supplement	\$5.00	
0417 Spanish I	Supplement	\$5.00	
0417 Spanish I	Textbook	\$17.86	
0418 Spanish for Spanish Speakers	Supplement	\$5.00	
0419 Spanish II	Supplement	\$5.00	
0419 Spanish II	Textbook	\$17.86	
0421 Spanish III	Supplement	\$5.00	
0421 Spanish III	Textbook	\$17.86	
0423 Spanish IV	Paperback	\$25.00	
0423 Spanish IV	Supplement	\$5.00	
0423 Spanish IV	Workbook	\$15.00	
0424 AP Spanish	AP Test	\$94.00	
0424 AP Spanish	Paperback	\$30.00	
0424 AP Spanish	Supplement	\$5.00	
0424 AP Spanish	Textbook	\$13.25	
0424 AP Spanish	Workbook	\$25.00	
0425 Japanese I	Supplement	\$3.00	
0425 Japanese I	Textbook	\$18.19	
0425 Japanese I	Workbook	\$29.99	
0427 Japanese V	Supplement	\$3.00	
0427 Japanese V	Textbook	\$23.39	
0431 Japanese II	Supplement	\$3.00	
0431 Japanese II	Textbook	\$20.79	
0431 Japanese II	Workbook	\$32.99	
0433 Japanese III	Supplement	\$3.00	
0433 Japanese III	Textbook	\$23.39	
0433 Japanese III	Workbook	\$29.99	
0435 Japanese IV	Supplement	\$3.00	
0435 Japanese IV	Textbook	\$23.39	
0437 American Sign Language	Supplement	\$3.00	
0437 American Sign Language	Workbook	\$62.50	

0439 American Sign Language II	Supplement	\$3.00	
0439 American Sign Language II	Workbook	\$62.50	
0441 American Sign Language III	Supplement	\$3.00	
0441 American Sign Language III	Workbook	\$52.46	
0443 American Sign Language IV	Supplement	\$3.00	
0443 American Sign Language IV	Workbook	\$52.46	
0445 Spanish I Accelerated	Supplement	\$5.00	
0445 Spanish I Accelerated	Textbook	\$17.86	
0447 Chinese I	Supplement	\$5.00	
0447 Chinese I	Textbook	\$12.00	
0447 Chinese I	Workbook	\$24.68	
0449 Chinese II	Supplement	\$5.00	
0449 Chinese II	Textbook	\$12.00	
0449 Chinese II	Workbook	\$25.16	
0453 Spanish II Accelerated	Supplement	\$5.00	
0453 Spanish II Accelerated	Textbook	\$17.86	
0455 Spanish III Accelerated	Supplement	\$5.00	
0455 Spanish III Accelerated	Textbook	\$17.86	
0457 Chinese III	Supplement	\$5.00	
0457 Chinese III	Textbook	\$11.50	
0457 Chinese III	Workbook	\$35.06	
0467 Chinese IV	Supplement	\$5.00	
0467 Chinese IV	Textbook	\$11.90	
0467 Chinese IV	Workbook	\$33.99	
0469 AP Chinese	AP Test	\$94.00	
0469 AP Chinese	Supplement	\$5.00	
0469 AP Chinese	Textbook	\$16.00	
0469 AP Chinese	Workbook	\$29.99	
0501 Physical Education I	Supplement	\$4.00	
0502 Physical Education II	Supplement	\$4.00	
0503 Applied Physical Education I	Supplement	\$1.00	
0504 Applied Physical Education II	Supplement	\$1.00	
0505 Fitness I	Supplement	\$2.00	
0506 Fitness I	Supplement	\$2.00	
0507 Advanced Team Sports	Supplement	\$2.00	
0508 Advanced Team Sports	Supplement	\$2.00	
0509 Fitness II	Supplement	\$2.00	

0510 Fitness II	Supplement	\$2.00	
0513 Lifeguarding	Supplement	\$35.00	
0513 Lifeguarding	Textbook	\$27.83	
0514 Lifeguarding	Supplement	\$35.00	
0514 Lifeguarding	Textbook	\$27.83	
0515 Health Education	Supplement	\$8.00	
0516 Health Education	Supplement	\$8.00	
0517 Advanced Health Education	Supplement	\$5.00	
0518 Advanced Health Education	Supplement	\$5.00	
0521 Water Activities	Supplement	\$3.00	
0522 Water Activities	Supplement	\$3.00	
0525 Physical Conditioning I (0 hour)	Supplement	\$5.00	
0526 Physical Conditioning II (0 hour)	Supplement	\$5.00	
0529 Physical Conditioning I (football)	Supplement	\$5.00	
0530 Physical Conditioning II (football)	Supplement	\$5.00	
0533 XFit	Supplement	\$2.00	
0534 XFit	Supplement	\$2.00	
0535 Health Science I- Ath Trn	Supplement	\$25.00	
0537 Physical Conditioning I	Supplement	\$5.00	
0538 Physical Conditioning II	Supplement	\$5.00	
0541 Basketball - Recreation	Supplement	\$3.00	
0542 Basketball - Recreation	Supplement	\$3.00	
0547 Advanced Team Sports (Girls)	Supplement	\$2.00	
0548 Advanced Team Sports (Girls)	Supplement	\$2.00	
0551 Physical Conditioning I (no credit)	Supplement	\$5.00	
0552 Physical Conditioning II (no credit)	Supplement	\$5.00	
0557 Health Sci Education II Athletic Training	Supplement	\$10.00	
0559 Health Sci Education II Physical Therapy	Supplement	\$10.00	
0602 FIRST Tech Challenge IED FTC 9	Supplement	\$40.00	
0603 Computers in Design & Production	Supplement	\$20.00	
0604 Architectural Design I	Supplement	\$20.00	
0605 PLTW Intro Engineering Design (IED)	Supplement	\$30.00	
0606 PLTW Intro to Engineering Design (IED) -Girls	Supplement	\$30.00	
0607 PLTW Principles Of Engineering (POE)	Supplement	\$25.00	
0608 PLTW Engineering Design & Development (EDD)	Supplement	\$20.00	
0609 Automation/Robotics I	Supplement	\$46.00	
0610 Automation/Robotics II	Supplement	\$46.00	

0612 FIRST Tech Challenge (POE) FTC 10th	Supplement	\$40.00	
0613 PLTW Digital Electronics	Supplement	\$30.00	
0614 FIRST Tech Challenge IED FTC 9	Supplement	\$40.00	
0615 Information Technology Support I	Supplement	\$15.00	
0616 FIRST Tech Challenge (POE) FTC 10th	Supplement	\$40.00	
0620 Welding Technology I	Supplement	\$35.00	
0622 Welding Technology II	Supplement	\$35.00	
0625 Advanced Manufacturing I	Supplement	\$40.00	
0627 Advanced Manufacturing II	Supplement	\$35.00	
0629 Intro to Construction	Supplement	\$30.00	
0631 Construction Trades	Supplement	\$40.00	
0633 Vocational Building Trades I	Supplement	\$30.00	
0643 Animal Science	Supplement	\$5.00	
0644 Introduction to Ag, Food, & NR	Supplement	\$5.00	
0645 Advanced Life Sciences	Supplement	\$7.00	
0647 Agribusiness Management	Supplement	\$5.00	
0649 Natural Resources	Supplement	\$5.00	
0651 Landscape Management	Supplement	\$5.00	
0653 PLTW Aerospace Engineering	Supplement	\$36.00	
0654 Non PLTW Civil Eng & Arch	Supplement	\$20.00	
0655 PLTW Civil Engineering & Architecture (CEA)	Supplement	\$20.00	
0656 Architectural Design II	Supplement	\$20.00	
0659 Horticultural Science	Supplement	\$5.00	
0674 Professional Career Internship	Supplement	\$3.00	
0675 Professional Career Internship	Supplement	\$3.00	
0677 Penn FIRST Robotics Internship I	Supplement	\$32.00	
0678 Penn FIRST Robotics Internship II	Supplement	\$32.00	
0680 Professional Career Internship	Supplement	\$3.00	
0681 Professional Career Internship	Supplement	\$3.00	
0682 Professional Career Internship	Supplement	\$3.00	
0683 Professional Career Internship	Supplement	\$3.00	
0684 Professional Career Internship	Supplement	\$3.00	
0685 Professional Career Internship	Supplement	\$3.00	
0686 Professional Career Internship	Supplement	\$3.00	
0687 Professional Career Internship	Supplement	\$3.00	
0707 Algebra I (9 retakers)	Supplement	\$4.00	
0710 Algebra II 11-12 (CPM)	Supplement	\$4.00	

0712 Algebra II Accelerated	Supplement	\$3.00	
0713 Algebra II Honors- 9	Supplement	\$3.00	
0714 Alg II H 10-12	Supplement	\$3.00	
0717 Algebra I (9) CPM	Supplement	\$4.00	
0718 Algebra I 10-12	Supplement	\$5.00	
0724 Algebra II	Supplement	\$5.00	
0725 Geometry Accelerated - 9	Supplement	\$4.00	
0728 Geometry	Supplement	\$4.00	
0732 Trigonometry	Supplement	\$1.50	
0733 Pre Calculus Honors	Supplement	\$1.50	
0735 Pre Calculus Accelerated	Supplement	\$1.50	
0736 Trigonometry Accelerated	Supplement	\$1.50	
0737 AP Calculus AB	AP Test	\$94.00	10th Grade Only
0737 AP Calculus AB	Supplement	\$3.00	
0738 Trigonometry Honors	Supplement	\$1.50	
0739 CCR Bridge: Math	Supplement	\$3.00	
0739 CCR Bridge: Math	Workbook	\$17.00	
0745 AP Calculus BC	AP Test	\$94.00	10th Grade Only
0745 AP Calculus BC	Supplement	\$3.00	
0747 Multivariable Calculus	Supplement	\$3.00	
0747 Multivariable Calculus	Textbook	TBD	
0749 Differential Equations	Supplement	\$3.00	
0749 Differential Equations	Textbook	TBD	
0753 Pre Calculus	Supplement	\$1.50	
0759 Finite Math Ivy Tech 135	Supplement	\$3.00	
0759 Finite Math Ivy Tech 135	Textbook	\$25.27	
0765 ACP Calculus M215 (IU)	Supplement	\$3.00	
0767 AP Statistics	AP Test	\$94.00	10th Grade Only
0767 AP Statistics	Supplement	\$3.00	
0769 ACP Calculus M216 (IU)	Supplement	\$3.00	
0771 Probability and Statistics	Supplement	\$3.00	
0772 Probability and Statistics	Supplement	\$3.00	
0773 Math 10	Supplement	\$5.00	
0775 Algebra I Lab	Supplement	\$5.00	
0787 Brief Survey of Calculus I	Supplement	\$3.00	
0789 College Algebra Ivy Tech 136	Supplement	\$3.00	
0800 Fine Arts Connections Capstone	Supplement	\$5.00	

0801 Beginning Choral (Singing Kingsmen)	Supplement	\$30.00	
0803 Beginning Choral (Bel Canto Chorus)	Supplement	\$30.00	
0805 Intermediate Choral (Singing Kingsmen)	Supplement	\$25.00	
0807 Intermediate Choral (Cantabile Chorus)	Supplement	\$30.00	
0809 Advanced Choral (Bella Voce)	Supplement	\$35.00	
0811 Advanced Choral (Concert Choir)	Supplement	\$35.00	
0813 Advanced Choral (Rhapsody)	Supplement	\$120.00	
0814 Advanced Choral (Viva Voce)	Supplement	\$70.00	
0815 Music Theory and Composition I	Supplement	\$1.00	
0815 Music Theory and Composition I	Workbook	TBD	
0817 Intermediate Concert Band (Freshmen)	Supplement	\$45.00	
0819 Intermediate Concert Band (Concert Band)	Supplement	\$45.00	
0823 Instrumental Ensemble (Percussion Studies)	Supplement	\$45.00	
0825 Inst Ensemble (Advanced Percussion Studies)	Supplement	\$45.00	
0827 Intermediate Jazz Ensemble	Supplement	\$20.00	
0829 Advanced Jazz Ensemble	Supplement	\$20.00	
0831 String Orchestra	Supplement	\$45.00	
0833 Symphonic Orchestra	Supplement	\$45.00	
0835 Dance Performance I	Supplement	\$2.50	
0836 Dance Performance II	Supplement	\$2.50	
0837 Dance Choreography I	Supplement	\$2.50	
0838 Dance Choreography II	Supplement	\$2.50	
0839 Advanced Concert Band (Symphonic Band)	Supplement	\$45.00	
0841 Advanced Concert Band (Symphonic Winds)	Supplement	\$45.00	
0843 Music Technology I	Supplement	\$16.00	
0844 Music Technology II	Supplement	\$16.00	
0845 AP Music Theory I	AP Test	\$94.00	
0845 AP Music Theory I	Supplement	\$2.00	
0847 Concert Orchestra	Supplement	\$45.00	
0849 Instrumental Chamber Music	Supplement	\$45.00	
0850 Advanced Dance I	Supplement	\$37.50	
0851 Advanced Dance II	Supplement	\$37.50	
0853 Dance Choreography III	Supplement	\$2.50	
0854 Dance Choreography IV	Supplement	\$2.50	
0857 Instrumental Ensemble (Chamber Orchestra)	Supplement	\$45.00	
0905 Biology I	Supplement	\$6.00	
0907 Biology I Honors	Supplement	\$6.00	

0909 PLTW Princ of Biomedical Sci (PBS)	Supplement	\$7.00	
0911 PLTW Human Body Systems (HBS)	Supplement	\$10.00	
0913 Anatomy and Physiology	Paperback	\$13.00	
0913 Anatomy and Physiology	Supplement	\$25.00	
0913 Anatomy and Physiology	Textbook	\$15.39	
0915 Integrated Chemistry-Physics	Supplement	\$5.00	
0919 Chemistry I Honors	Supplement	\$5.00	
0919 Chemistry I Honors	Textbook	\$15.78	
0921 Chemistry I	Supplement	\$5.00	
0921 Chemistry I	Textbook	\$13.53	
0923 Chemistry II	Supplement	\$5.00	
0923 Chemistry II	Textbook	\$23.16	
0925 Astronomy	Supplement	\$3.00	
0925 Astronomy	Workbook	\$35.00	
0929 Physics I	Supplement	\$4.00	
0929 Physics I	Textbook	\$20.25	
0933 Physics II	Supplement	\$29.00	
0933 Physics II	Textbook	\$20.25	
0935 AP Biology	AP Test	\$94.00	10th Grade Only
0935 AP Biology	Supplement	\$8.00	
0935 AP Biology	Workbook	\$11.71	
0937 AP Chemistry	AP Test	\$94.00	10th Grade Only
0937 AP Chemistry	Supplement	\$7.00	
0937 AP Chemistry	Textbook	\$24.96	
0941 Earth-Space Science	Supplement	\$6.00	
0943 Environmental Science	Supplement	\$14.00	
0945 AP Environmental Science	AP Test	\$94.00	10th Grade Only
0945 AP Environmental Science	Supplement	\$14.00	
0945 AP Environmental Science	Textbook	\$16.35	
0947 AP Physics C E & M	AP Test	\$94.00	10th Grade Only
0947 AP Physics C E & M	Supplement	\$8.00	
0947 AP Physics C E & M	Textbook	\$35.55	
0949 Nanotechnology	Supplement	\$4.00	
0950 Nanotechnology	Supplement	\$4.00	
0951 Forensic Science	Supplement	\$4.00	
0951 Forensic Science	Textbook	\$6.96	
0952 Forensic Science	Supplement	\$4.00	

0952 Forensic Science	Textbook	\$6.96	
0953 Science Research Indpt Study	Supplement	\$4.00	
0955 Oceanography	Supplement	\$6.00	
0961 PLTW Medical Interventions	Supplement	\$66.00	
0963 AP Phys-C Mechanics	AP Test	\$94.00	10th Grade Only
0963 AP Phys-C Mechanics	Supplement	\$6.00	
0963 AP Phys-C Mechanics	Textbook	\$35.55	
0965- ACP Biology	Supplement	\$28.00	
0965- ACP Biology	Textbook	\$45.25	
0967 Biomedical Innovations	Supplement	\$42.00	
0969 AP Physics Algebra Based	Supplement	\$3.00	
1001 Interpersonal Relations	Supplement	\$3.00	
1003 Human Development & Wellness	Supplement	\$3.00	
1005 Education Professions	Supplement	\$9.00	
1007 Nutrition and Wellness	Supplement	\$12.50	
1008 Adv Nut and Wellness	Supplement	\$12.50	
1009 Culinary Arts and Hospitality I	Supplement	\$25.00	
1011 Adult Roles & Responsibilities	Supplement	\$3.00	
1012 Introduction to Housing & Interior Design	Supplement	\$10.00	
1013 Introduction to Culinary Arts & Hospitality	Supplement	\$3.00	
1013 Introduction to Culinary Arts & Hospitality	Textbook	\$21.60	
1014 Adult Roles & Responsibilities	Supplement	\$3.00	
1016- Introduction to Culinary Arts & Hospitality	Supplement	\$3.00	
1016- Introduction to Culinary Arts & Hospitality	Textbook	\$21.60	
1017 Human & Social Services I	Supplement	\$3.00	
1022 Human Development & Wellness	Supplement	\$3.00	
1023 Child Development	Supplement	\$4.50	
1024 Interpersonal Relations	Supplement	\$3.00	
1025 Introduction to Fashion & Textiles	Supplement	\$14.00	
1026 Advanced Child Development	Supplement	\$4.50	
1027 Fashion & Textiles Careers I	Supplement	\$15.00	
1029 Fashion & Textiles Careers II	Supplement	\$3.00	
1029 Fashion & Textiles Careers II	Textbook	\$15.05	
1103 World History and Civilization	Supplement	\$5.00	
1105 Geography & History of the World	Supplement	\$5.00	
1109 U S History	Supplement	\$5.00	
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