# PIQUA HIGH SCHOOL



# PROGRAM OF STUDIES

2022-2023

#WeArePiqua

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#### **GRADES AND CREDITS**

# JUNIOR HIGH CREDIT

Junior high school students successfully completing high school courses offered as part of the junior high curriculum (Algebra I and Art) will earn high school credit, but the grade will not be included in the high school GPA.

#### **COURSE RETAKE OPTION**

A student may retake a course for improved achievement. The credit will be denied for the original course, but the course will remain on the transcript. A letter D will be added next to the original letter grade indicating the credit was denied. For example, Spanish with an original grade of C, would be recorded CD on the final transcript.

#### **GRADING SYSTEM**

Piqua High School staff adheres to the following grading scale:

- A = 90 100
- B = 80 89
- C = 70 79
- D = 60 69
- F = Below 60

#### **GRADE POINT AVERAGE**

The grade point average (GPA) is figured on the 4.0 scale for all courses, except those that are pass/fail, and it is used to determine class rank. A grade point is computed by multiplying the number of grade points earned in each course (A=4, B=3, C=2, D=1, F=0) times the number of credits the course is worth. The total number of points is divided by the number of credits attempted to determine the GPA. A student that withdraws failing from a class will affect the student's GPA, as it will be calculated into the cumulative GPA and the class rank.

#### **HOME SCHOOLED STUDENTS**

Credits for home schooled students may be accepted by the Assistant Superintendent, but grade point average will not be accepted.

#### **VALEDICTORIAN AND SALUTATORIAN**

Selections are based on GPA, course selection, and ACT/SAT scores through seven semesters. To be eligible:

- 1. Must qualify for an Honors Diploma.
- 2. 4.0 GPA will be multiplied by 9.
- 3. The GPA and ACT will then be added together.
- 4. The top point earner will be the valedictorian. The second point earner will be the salutatorian.
- \*The honor will be based on GPA and test scores at the end of the first semester of the senior year.

#### **ODYSSEYWARE ONLINE LEARNING**

Odysseyware Online Learning is a program designed to allow credit-deficient students the opportunity to earn credits online. Students utilize an internet-based academic program to complete classes that will fulfill requirements for graduation. Students may take classes during the school day or after school. Participation in the program requires permission of the building principal and school counselor.

# **EDUCATIONAL OPTIONS**

#### **SCHEDULING**

During February, the scheduling process will begin. Please feel free to arrange a conference with your counselor during this time should there be any questions. Please give careful consideration in course selection. The counselors will change schedules for the next year until the last day of school. After the last day of school, students will remain in the course for the first 5 days. They will have the opportunity to change their schedule during days 6-10 by completing a course change request form, which can be obtained in the counseling office. If a student changes a course during the first ten days, there will be no penalty to the student. After that time, the student will be withdrawn with an F which impacts eligibility and GPA. Level changes within the same subject will be handled on an individual basis.

#### SUMMER SCHOOL

Piqua High School offers selected summer school classes to students in grades 9 – 12 through the Odysseyware Online Learning. Applications can be obtained in the spring. \$50 deposit required. Deposit will be returned upon successful completion of the summer school course(s) by the end of summer school.

#### **FLEX CREDIT**

Per Ohio Revised Code and Piqua School Board policy, Piqua High School allows students the opportunity to experience learning and the acquisition of skills through instruction or study outside of the traditional classroom. Credit flexibility options are designed for those students who demonstrate the ability, interest, and maturity to accept personal responsibility for their learning in a selected curricular area and are willing to pursue it beyond the typical classroom setting. Any student interested in participating in the Credit Flexibility option should see their counselor prior to May 15.

#### PHYSICAL EDUCATION WAIVER

The PE Waiver is available to athletes, members of after school Marching Band, Color Guard, Show Choir, and Cheerleaders who practice and participate in a Piqua High School sanctioned activity on a daily basis. The guidance department will verify with the athletic department that the students completed 90% of the season. The sport or activity will be documented on the transcript. Excused students must complete one-half unit in another curricular area (not PE). *Two seasons are required to waive the PE requirement; no partial credit can be earned.* 

#### **UPPER VALLEY CAREER CENTER**

Students who are 16 or older, have completed two years of high school, meet program-specific requirements, and meet the credit requirement of seven credits, including 1 Math, 1 Science, 1 English, and 1 Social Studies are eligible to attend the UVCC. Applications are available online on the UVCC website and are accepted until the 10<sup>th</sup> day of school. Special needs students must have an IEP conference and plan prior to admission.

#### **SPECIAL EDUCATION**

Special education services are provided to students with disabilities as defined by the Individuals with Disabilities Education Act (IDEA). Special education students are scheduled based upon the recommendations of the student's Individualized Education Program (IEP) team. Our intervention specialists and general education teachers work together to offer a full range of instructional services to meet each student's needs.

#### **ELL**

The ELL Program is available to students whose first language is not English.

The program helps non-native English speaking students develop the appropriate English language skills to succeed in all aspects of their education. They receive individualized instruction in reading, writing, listening and speaking. ELL students may also be entitled to curriculum and assessment modifications in their core classes based on their language level.

# ADVANCED PLACEMENT (AP) COURSES

AP courses are taught at high schools across the United States and allow students to participate in college level courses. Students could possibly earn college credit while still in high school. High schools and colleges cooperate in this program to give students the opportunity to show mastery in college-level courses by taking the AP exam in May of each school year. Colleges and universities may grant students college credit and/or accelerated placement on the basis of their AP test scores. It is important to note that these policies vary among institutions of higher learning. It is advised that students check with the colleges and universities they are interested in to see if they accept AP exams for credits.

#### **COLLEGE CREDIT PLUS**

College Credit Plus allows students to take college classes while in high school. All students interested in College Credit Plus are required to attend one of Piqua High School's College Credit Plus meetings held in February with their parents/guardians. The student/parent must provide the counselor with a non-binding notification of intent by April 1. Students must submit the college application, an official transcript to the university, mature content permission slip and the student questionnaire for the college.

Wright State University: Satisfaction of the Ohio remediation free standards, recommendation of the high school principal/counselor, college-level placements scores as established by the University, and satisfaction of all prerequisites for any selected course(s). To take WSU Math: 22 on the ACT (27 ACT for WSU Calc), 550 on the SAT, or a score of 46 or better on the Wright State ALEKS mathematics examination; 18 on the ACT English exam, 490 on the SAT Reading and Writing Exams, or a score of 84 or above on the WSU writing placement exam. To take WSU English: 21 on the ACT, 550 on the SAT Reading and Writing examinations, or a score of 86 or above on the Wright State writing examination. Students with the following valid test results should NOT take the WSU Writing Placement Test: ACT English 21, SAT Evidenced-Based Reading/Writing 550, SAT Writing & Language 28, SAT Reading 27. All placement tests must be taken at the WSU campus. \*During the 2022-23 school year, any students in the classes of 2023, 2024 or 2025 who have obtained a cumulative GPA of 3.0 or better will be admitted to WSU without test scores. Students can qualify for English Composition 1100 with a GPA of 3.2 or higher. For English Comp. 1140 students need a GPA of at least 2.9. Students signing up for any math course, or any course requiring a math prerequisite through WSU, are required to submit ACT or SAT scores or complete the math placement test. Students in the classes of 2026, 2027 and 2028 are required to submit ACT or SAT scores or complete the writing and math placement assessments. Any student who has below a 3.0 cumulative GPA, is required to submit ACT or SAT scores or complete the writing and math placement assessments.

Edison Community College: Any high school student with a qualifying ACT or Accuplacer score. ACT: 18 in English, 22 in Reading and 22 in Math. Students may take classes on the Piqua High School campus or at Edison. Students must meet with their counselor for proper paperwork prior to registering for their semester classes. Scheduling conflicts of college courses and school activities are not the responsibility of the Piqua City School District. The Accuplacer placement test can be taken at Edison or on the scheduled date at PHS. \*During the 2022-23 school year, any student with a cumulative GPA of 3.0 qualifies for CCP. Students must also earn an "A" or "B" in English and/or Math to be eligible for classes. Students may also use qualifying ACT/SAT scores or Accuplacer scores.

<u>Cleveland State University</u>: Students must have a 2.3 GPA and qualifying ACT score. ACT requirements include: 18 in English OR 22 Math OR 22 Reading. Additionally, CSU requires an ACT composite score of 16 OR SAT total score of 880 or higher. Test scores must be sent electronically.

# **College Credit Plus Course Offerings at PHS**

Math	WSU Pre-Calculus 4 credits MATH 1280 College Algebra 3 credits MATH 1350 Analytical Geometry and Trigonometry  WSU Calculus 4 credits MATH 2300 Calculus I 4 credits MATH 2310 Calculus II
Science	ECC Anatomy & Physiology 4 credits BIO 125s Anatomy and Physiology I 4 credits BIO 126s Anatomy and Physiology II
Social Sciences	ECC US History 3 credits HST 121S History of the United States I 3 credits HST 122S History of the United States II
English	ECC English Composition 3 credits ENG 121S English Composition 1 3 credits ENG 122S English Composition II

# **DISCRIMINATION POLICY**

In compliance with legislation, all students are to be counseled equally when describing the content of a course, program, or field of academic study. All courses offered to the student population of Piqua High School are available to all students. Please refer to BOE policy 2260 - Nondiscrimination and Access to Equal Educational Opportunity.

# ATHLETICS AND EXTRACURRICULAR ACTIVITIES

#### **EXTRACURRICULAR ELIGIBILITY**

Students receiving two Fs at the conclusion of a grading period are declared ineligible for the next nine weeks. Athletes must also be passing 5 units of credit each nine week grading period per OHSAA guidelines. Students that withdraw/fail from a class will impact the 2 "F" policy for extracurricular eligibility and the 5-credit requirement for the OHSAA. When registering for classes and changing class schedules, students/parents need to double check the total number of credits with the counselor. PE and weights do not count as one of the five classes needed for eligibility.

#### **ATHLETICS**

Piqua High School is a member of the Miami Valley League (MVL), participating in sports opposite Sidney, Piqua, Troy, Tipp City, Vandalia, Greenville, West Carrollton, Fairborn, Stebbins, and Xenia.

Boys' SportsGirls' SportsFootballVolleyballBasketballBasketballBaseballSoftball

Cross country
Tennis
Tennis
Tennis

Track Track
Soccer Soccer
Wrestling Golf
Golf Swimming
Swimming Cheerleading
Bowling Bowling

#### **EXTRACURRICULAR ACTIVITIES**

The following extracurricular activities are available to Piqua High School Students:

<u>National Honor Society</u>: a group of juniors and seniors having a GPA of 3.6 or higher, and at least 10 hours of community service logged within the last year. The purpose is to uphold the standards of scholarship, leadership, character, and service.

<u>Student Council</u>: an organization of elected students that plans student based activities such as homecoming, honor roll assemblies and teacher appreciation breakfasts. Students must maintain high academic standards and attendance to continue as a member of the Student Council.

<u>Key Club</u>: an international student led organization that provides its members with opportunities to provide service, build character, and develop leadership.

<u>Link Leaders</u>: students in grades 11-12 act as mentors to the incoming freshmen to help them transition into high school.

<u>SkillsUSA</u>: is a partnership of students, teachers and industry working together to ensure America has a skilled workforce. SkillsUSA empowers its members to become world-class workers, leaders and responsible American citizens. SkillsUSA improves the quality of our nation's future skilled workforce through the development of Framework skills that include personal, workplace and technical skills grounded in academics.

<u>Color Guard</u>: an auxiliary unit mainly concerned with the visual aspect of marching band using flags and movement.

<u>Musical</u>: The Piqua High School Music Department presents an all school musical each spring. The musical is open to any PHS student. Auditions are held prior to holiday vacation. Rehearsals take place in January, February, and March.

Academic Challenge: a winter MVL sport that competes in quiz bowl competitions.

<u>Spanish Club</u>: promotes the understanding of foreign cultures, while providing students with an opportunity to speak Spanish, explore artistic expression, and experience the flavor and diversity of the multi-faceted Hispanic culture.

<u>Art Club</u>: works on various large-scale art projects throughout the year. Members participate in projects to beautify the school and community as well as multiple fundraisers to support the club.

<u>Family, Career and Community Leaders of America (FCCLA)</u>: a dynamic and effective national student organization that helps young men and women become leaders and address important personal, family, work, and societal issues through Family and Consumer Sciences education.

Interact Club: a service organization connected to the Rotary Club. Interact Club sponsors several events during the school year that focus on lifting up the community.

<u>Science Olympiad</u>: an academic competition team that competes in events consisting of building, identifying, modeling, and studying different scientific phenomena.

<u>Science Fair:</u> Work with classmates to complete a long-term science project and submit it for prizes at the district, county, and state level.

<u>Dungeons and Dragons</u>: Learn how to play the world's most famous role-playing game and make new friends in the process. Create a character and join a party of adventures, leveling up in power as you face various monsters and obstacles while telling a story collaboratively.

<u>French Honor Society</u>: To foster and encourage the study of the French language and culture. Qualifications: Two full years of French with a grade of A- or better; a minimum 3.0 GPA in all other coursework (excluding French grades); teacher invitation only.

<u>Harry Potter Club</u>: promotes positivity in the school and community through the magical world of Harry Potter. During each meeting, club members discuss Harry Potter books, movies, topics, news, and trivia.

<u>SAGA Club</u>: A student-led organization that unites LGBTQ and allied youth to build a safe, welcoming, and accepting school community and organize around issues impacting them.

Model UN: Students have the opportunity to play a part in solving world problems.

# **GRADUATION REQUIREMENTS**

#### PIQUA HIGH SCHOOL GRADUATION REQUIREMENTS

Piqua High School students are required to earn 21 credits, meet testing requirements, and complete 6 hours of senior service hours (excluding UVCC & off-campus CCP students).

- English: 4 credits
- Math: 4 credits including 1 credit of Algebra II or equivalent. Three math credits must be earned at the high school.
- Science: 3 credits including 1 Physical, 1 Biological, and 1 Advanced
- Social Studies: 3 credits including 1 American History, .5 Government, and .5 World History
- physical Education: .5 credit--2 semesters (or PE waiver)
- Health: .5 credit
- Electives: 6 credits including 2 semesters in Fine Arts (grades 7-12).
- Financial Literacy: Students must study financial literacy to graduate. This requirement can be met by completing one of the following courses: Economics, Finance and Banking, Personal Finance, Government S2 or Success Bound. The class of 2026 and beyond are required to take a Financial Literacy class.

# **CLASS OF 2023 & BEYOND**

Earn a passing score on Ohio's high school Algebra 1 and English II tests. Students who do not pass these tests will be offered additional support and must retake the test at least once. After taking the tests, there are three additional options to show competency:

#### Option 1: Demonstrate Two Career-Focused Activities:

Proficient scores on WebXams (Foundational)

A 12-point industry credential (Foundational)

A pre-apprenticeship or acceptance into an approved apprenticeship program (Foundational)

Work-based learning (Supporting)

Earn the required score on WorkKeys (Supporting)

Earn the OhioMeansJobs Readiness Seal (Supporting)

\*At least one must be a Foundational skill

# Option 2: Enlist in the Military:

Show evidence that you have signed a contract to enter a branch of the U.S. armed services upon graduation.

# Option 3: Complete College Coursework:

Earn credit for one college-level math and/or college-level English course through Ohio's free College Credit Plus program.

Additionally, students must earn two of the following diploma seals (at least one must be Ohio-designed):

State-Defined Diploma Seal	Requirements	
Military Enlistment Seal	Provide evidence (a signed copy of the DD Form 4) that a student has enlisted in a branch of the U.S. Armed Forces; or Participate in an approved JROTC program.	
Technology Seal	A student can:  1. Earn a score that is at least equivalent to proficient on an appropriate Advanced Placement or International Baccalaureate exam;  2. Earn a final course grade that is equivalent to a "B" or higher in an appropriate class taken through the College Credit Plus program; or  3. Earn 1 credit in a qualifying course offered through the district or school that meets guidelines developed by the Department. (A district or school is not required to offer a course that meets those guidelines.)	
Industry-Recognized Credential Seal	Earn a 12-point approved industry-recognized credential or group of credentials totaling 12 points in a single career field.	
Citizenship Seal	<ol> <li>A student can:         <ol> <li>Earn a score of proficient or higher on both the American history and American government end-of course exams;</li> <li>Earn a score that is at least equivalent to proficient on appropriate Advanced Placement or International Baccalaureate exams; or</li> <li>Earn a final course grade that is equivalent to a "B" or higher in appropriate classes taken through the College Credit Plus program.</li> </ol> </li> <li>Earn a grade of "B" in American History and Government.</li> </ol>	
OhioMeansJobs Readiness Seal	Meet the requirements and criteria established for the readiness seal, including demonstration of work-readiness and professional competencies.	
State Seal of Biliteracy	Meet the requirements and criteria, including proficiency requirements on assessments in a world language and English.	
College-Ready Seal	Earn remediation-free scores on the ACT or SAT. Visit the Department's website to see current remediation-free scores.	
Science Seal	A student can: 1. Earn a score of proficient or higher on the	

	biology end-of-course exam;  2. Earn a score that is at least equivalent to proficient on appropriate Advanced Placement or International Baccalaureate exams; or  3. Earn a final course grade that is equivalent to a "B" or higher in an appropriate class taken through the College Credit Plus program.  4. Earn a grade of "B" or higher in an advanced Science class.
Honors Diploma Seal	Earn one of six Honors Diplomas outlined below:  1. Academic Honors Diploma;  2. International Baccalaureate Honors Diploma;  3. Career-Tech Honors Diploma;  4. STEM Honors Diploma;  5. Arts Honors Diploma;  6. Social Science and Civic Engagement Honors Diploma.
Locally Defined Diploma Seals**	Requirements
Community Service Seal (locally defined)	A student can:         1. Receive credit for the Service Learning class;         2. Complete a community service project for an approved 12 hour project with a local nonprofit organization, upon completion of a Community Service Agreement Form.
Community Service Seal (locally defined)  Student Engagement Seal (locally defined)	<ol> <li>Receive credit for the Service Learning class;</li> <li>Complete a community service project for an approved 12 hour project with a local nonprofit organization, upon completion of</li> </ol>

# UPPER VALLEY CAREER CENTER GRADUATION REQUIREMENTS

Upper Valley Career Center students are required to earn 21 credits and meet end of course exam requirements. Senior service hours are not required.

- English: 4 credits
- Math: 4 credits including 1 credit of Algebra II or equivalent. Three math credits must be earned at the high school. Those who are pursuing a career-technical education pathway may be able to replace the Algebra 2/Math 3 requirement with a career-based mathematics course.
- Science: 3 credits including 1 Physical, 1 Life, and 1 Advanced
- Social Studies: 3 credits including .5 American History, .5 Government, and .5 World History (Class of 2021 and beyond)
- Physical Education: .5 credit (2 semesters)
- Health: .5 credit
- Electives: 6 credits
- Financial Literacy: Students can meet this requirement by complete requirements at PHS or by taking government at the Upper Valley Career Center. The class of 2026 and beyond are required to take a Financial Literacy class.

#### **ACADEMIC HONORS DIPLOMA**

Graduating seniors have the opportunity to earn a diploma with honors. To qualify for this diploma, a student must fulfill all but one criterion:

- English: 4 credits
- Math: 4 credits including Algebra I, Geometry, Algebra II
- Science: 4 credits including 2 advanced sciences
- Social Studies: 4 credits
- World Language: 3 credits in one language or 2 credits each in two different languages
- Fine Arts: 1 credit (grades 7-12)
- GPA: 3.5 on a 4.0 scale
- ACT: 27 or SAT: 1280

#### **CAREER TECHNICAL HONORS**

Graduating seniors have the opportunity to earn a Career Technical Honors Diploma. To qualify for this diploma, a student must fulfill all but one criterion:

- English: 4 credits
- Math: 4 credits including Algebra I, Geometry, Algebra II, or equivalent and another higher level course or a four-year sequence of courses that contain equivalent content.
- Science: 4 credits including 2 units of advanced sciences
- Social Studies: 4 credits
- World Language: 2 credits in one language
- Electives: 4 credits of career-technical courses
- GPA: 3.5 on a 4.0 scale
- ACT: 27 or SAT: 1210 or Workkeys: 6 on Reading and 6 on Applied Mathematics
- Field experience
- Portfolio
- Earn an industry-recognized credential or achieve proficiency benchmark for appropriate Ohio Career-technical Competency Assessment or equivalent.

#### STEM HONORS DIPLOMA

Graduating seniors have the opportunity to earn a STEM Honors Diploma. To qualify for this diploma, a student must fulfill all but one criterion.

- English: 4 credits
- Math: 5 credits including Algebra I, Geometry, Algebra II
- Science: 5 credits including 2 advanced sciences
- Social Studies: 3 credits
- World Language: 3 credits in one language or 2 credits each in two languages
- Fine Arts: 1 credit (grades 7-12)
- Electives: 2 credits with a focus on STEM
- GPA: 3.5 on a 4.0 scaleACT: 27 or SAT: 1280Field Experience
- Portfolio

#### **ARTS HONORS DIPLOMA**

Graduating seniors have the opportunity to earn an Arts Honors Diploma. To qualify for this diploma, a student must fulfill all but one criterion.

- English: 4 credits
- Math: 4 credits including Algebra I, Geometry, Algebra II
- Science: 3 credits including 1 advanced sciences
- Social Studies: 3 credits
- World Language: 3 credits in one language or 2 credits each in two languages
- Fine Arts: 4 credits (grades 7-12)
- Elective: 2 units with a focus on fine arts
- GPA: 3.5 on a 4.0 scale
- ACT: 27 or SAT: 1280
- Field Experience
- Portfolio

#### SOCIAL SCIENCE AND CIVIC ENGAGEMENT HONORS DIPLOMA

Graduating seniors have the opportunity to earn a Social Studies and Civic Engagement Honors Diploma. To qualify for this diploma, a student must fulfill all but one criterion.

- English: 4 credits
- Math: 4 credits including Algebra I, Geometry, Algebra II
- Science: 3 credits including 1 advanced sciences
- Social Studies: 5 credits
- World Language: 3 credits in one language or 2 credits each in two languages
- Fine Arts: 1 credit (grades 7-12)
- Electives: 3 units with a focus on social sciences
- GPA: 3.5 on a 4.0 scale
- ACT: 27 or SAT: 1280
- Field experience
- Portfolio

# **COLLEGE PREPARATION**

#### **COLLEGE BOUND STUDENTS**

The following courses are recommended for college bound students.

- 4 credits of College Prep or Pre-AP English
- 4 credits of math, including Algebra I, Geometry, Algebra II
- 3 credits of science
- 3 credits of social studies
- 2-3 credits of world language (same language)
- 1 credit of art or music (grades 9-12)

Four-year college bound students will complete college entrance exams. The entrance tests are the ACT and SAT. Both the ACT and SAT are given five to six times each year. A student may take the test as many times as he/she wishes and scores should be sent to the college. Colleges will generally take the best score when considering admission or scholarship. It is best to take the test no later than the spring of the junior year. This allows the student to complete a full three years of English, math, and science courses. Students are encouraged to take the test more than once.

PreACT: The PreACT is a shortened practice ACT test for high school sophomores. It tests English, Math, Reading, and Science. It is an excellent preview in preparation for taking the real ACT.

ACT: Scores on the ACT are reported in English, Math, Reading, Science Reasoning, Writing (optional but required by some schools), and a Composite (average of four). Scores will range from 1 to 36 with 21 being an average national score. The following scores on the ACT indicate college readiness: English-18, Reading-22, Math-22, and Science-23.

PSAT: PSAT scores are used to identify National Merit Scholars and award merit scholars. This test is taken on a request only basis by the 11<sup>th</sup> graders.

SAT: Highly competitive schools generally prefer the SAT. Scores are reported in critical reading, math, and writing. Scores on the SAT range from 200 to 800 on each part of the test. The following scores on the SAT indicate college readiness: Writing-430, Critical Reading-450, Math-520.

Students should be prepared to apply to college by Thanksgiving but no later than Christmas of their senior year. The student will request transcripts from their counselor and provide a dollar for each request.

Seniors should check the list of scholarships posted in Naviance. All families with college bound students should complete the FAFSA form (Financial Aid Form) after October 1 of their senior year. Colleges have priority deadlines. Complete the FAFSA by the deadline. Financial aid meetings are offered during parent teacher conferences.

# **HOW COLLEGES SELECT STUDENTS**

Colleges select students by the rigor of coursework pursued by the student during high school, student rank, GPA, college entrance examination scores, service to the school and the community, extracurricular activities, attendance record, personal profile of the student, neatness and accuracy of the college application, letters of recommendation, and personal interview (if required).

#### **COLLEGE ATHLETES**

Students planning to participate in intercollegiate athletics must pay close attention to the courses they select. They may need to go through the NAIA or NCAA eligibility center during their junior year, and they want to make sure they are eligible.

#### NAIA

If you are playing NAIA, you must register at <a href="www.playnaia.org/">www.playnaia.org/</a>. You must meet two of the three criteria: GPA (2.0/4.0), class rank (top 50%), and ACT (18) or SAT (860). Students must send an official transcript at the end of their junior year and a final transcript once they graduate. All ACT scores need to be sent directly from the testing agency using code 9876.

#### **NCAA**

If you are playing at a Division I or II institution, you must register at <a href="www.eligibilitycenter.org">www.eligibilitycenter.org</a>. GPA, ACT/SAT scores, and course requirements determine eligibility. Check with your counselor your freshman year to make sure you are taking a core curriculum that meets NCAA requirements. Students must send an official transcript at the end of their junior year and a final transcript once they graduate. All ACT scores need to be sent directly from the testing agency. Students must meet the following criteria:

- · Graduate from high school
- Complete 16 core courses: 4 years of English (Must be College Prep English), 3 years of math, 2 years of science, 1 extra year of English, math, or science, 2 units of social science, 4 years of extra core courses (from any category above or world language, non doctrinal religion, or philosophy). For Division I, 10 core courses must be completed prior to the 7<sup>th</sup> semester of high school (January of your senior year). These courses are locked in and cannot be retaken for improved credit. 7 of the 10 courses must be in English, math, or science.
- Division I: Uses a sliding scale to match test scores and grade point average to determine athletic eligibility. Must have a core GPA of at least 2.3. Grade point average is based on core courses.
- Division II: Earn a 2.200 grade-point average or better in your core courses and earn a combined SAT score of 840 or an ACT sum score of 70.

# **CAREER EXPLORATION**

#### **NAVIANCE**

Naviance is a one-stop site to help students prepare for future careers. The website allows students to take career assessments, research careers, locate universities, apply for scholarships, and explore job opportunities. Each student has a Naviance account. The account can be accessed from the guidance webpage.

#### SUCCESSBOUND

The Success Bound course introduces students to a variety of career fields and business people from a range of career clusters.

#### **COLLEGE WEEK**

Piqua High School offers college week for sophomores, juniors, and seniors. Sophomores take the PreACT test. Juniors and seniors visit college, military, and employment recruiters of interest.

#### **COLLEGE FAIR**

Edison Community College offers a college fair for juniors and seniors. The high school will take students to the event. Over 60 college and university representatives from Ohio, Indiana, and Tennessee attend.

#### **COLLEGE VISITS**

Juniors are allowed to attend 2 college visits. Seniors are allowed to attend 3 college visits. See your counselor prior to attending for the correct paperwork.

#### **JOB SHADOWING**

Students are able to arrange a job shadow. See your counselor for an application.

#### **CAREER CLUSTERS**

The Career Clusters are separated into sixteen areas and are designed to help students plan their educational experiences culminating in a rewarding career and independent adulthood. The information on the following pages is provided by Ohio Means Jobs.

OCCUPATIONS	Agricultural and Environmental Systems
Agricultural Engineers	Do you enjoy working with animals? Do you have a green thumb?
Agricultural Inspector	Do you collect rocks?  Are you interested in protecting the environment?  Do you enjoy working outdoors?  Are Science classes your favorite?
Agricultural Scientist	
Animal Breeders	
Animal Scientists	If you answered yes to two or more of the questions above, you might be interested in considering a career in agriculture, food, and
Animal Trainers	natural resources.  If you chose to work in occupations in the Agriculture, Food, and
Commercial Fishers	Natural Resources cluster, you could raise plants and animals as sources for food and shelter. On the other hand, you could focus on
Conservation Scientists	selling and making products from plants and animals. These products include food, lumber, and fabrics. You might also provide
Farm and Ranch Workers	advice and services that farmers and ranchers need to improve products. Another option in this cluster is to work to conserve natural
Farm Equipment Mechanics	resources and protect the environment.
Fish and Game Wardens	Helpful Piqua High School Electives: AP Biology AP Chemistry Higher level math classes  Upper Valley Career Technology Center Offerings: Ag and Power Technologies Environmental Occupations
Food Processing Workers	
Foresters	
Loggers	
Meat Cutters	Landscape Management Veterinary Science
Nursery Workers	Edison Community College Offerings:
Park Naturalists	Agriculture, A.S. Earth Science, A.S.
Recycling Workers	
Rock Splitters	
Trash Collectors	
Veterinarians	
Veterinary Assistants	
Water Treatment Plant     Operators	
Zoologists	

OCCUPATIONS	Arts and Communication	
Actor	Do you like to perform in front of an audience?	
Agent & Business Manager	Are you interested in working in movies or television?  Do you like to work with technology?  Is artistic expression important to you?	
Animator	Are you active with the school or community theatre?	
Announcer	Does computer animation interest you? Are you visually oriented?	
Art Director	If you answered yes, you might be interested in considering a career	
Broadcast Technician	in arts, audio/video technology, and communications. If you are interested in working in this cluster, you have two avenues. One is to	
Camera Operator	be a performer or artist. The other is to work behind the scenes to make the performance or publication happen. As a reporter, actor, or	
Cartoonist	fine artist, you would use your creative talents. To assure that a concert of a magazine is successful, you would use computers and	
Choreographer	sound equipment. The occupations in this cluster allow you to use your creativity, talent, and technical skills.	
Costume & Wardrobe Specialist		
Dancer	Helpful High School Electives: Women's, Men's, Concert, and Show Choir	
• Editor	Show Choir Combo, Marching Band and Symphonic Band Music Appreciation and Theory Art I: Introduction to Art Art II: Drawing and Painting Art III: Studio Art AP Studio Art: 2D Design/Drawing	
Fashion Designer		
Film & Video Editor		
Fine Artist	Introduction to Design Visual Design: Foundations of Design and Print Production	
Graphic Designer	Digital Video: Foundations of Video Design and Production Interactive Design: Foundations of Animation and Interactive Design	
Music Composers, Directors, and Arrangers	Photoshop Premiere Pro	
Musicians	Piqua Digital Weekly Ceramics Independent Study	
News Reporters	Speech Communications World Languages	
Photographers	Yearbook Drama	
Producer and Director	Fashion Design Construction	
Proofreaders	Upper Valley Career Center: Design and Digital Print Technologies	
Set Designer	Interactive Media	
Singer	Edison Community College Offerings: Fine Arts, A.A.	
Technical Writer	Photography Short-Term English, A.A.	
Video Game Designer	Communications, A.A.	
Writer		

OCCUPATIONS	Business and Administrative Services	
Administrative Services     Manager	Do you enjoy working with other people? Are you good at working with numbers? Do you like to plan and organize activities?	
Advertising Managers	Have you started your own business?	
Billing Clerks	Do you keep your checkbook balanced? Are you an officer of an organization?	
Bookkeeping and Accounting     Clerks	If you answered yes to two or more of the questions above, you might be interested in a career in business management and administration.	
Business Executives		
Computer Operators	If you are interested in the Business Management and Administrations cluster, there are many career options. You may	
Court Reporters	provide the needed support to keep a business in operation, or you might keep track of the expenses and income. You could	
Data Entry Keyers	manage the financial activities of a business. Another option is to be sure that a business has qualified employees who are trained to do their jobs. After years of education or experience, you might direct the operations of a business.	
Employment Interviewer		
Employment Recruiter	Helpful High School Electives:	
Executive Secretary	Speech Finance and Banking	
File Clerks	AP Calculus Statistics and Probability	
Human Resources Manager	Quantitative Reasoning Visual Design: Foundations of Design and Print Production	
Mail Clerks	Digital Video: Foundations of Video Design and Production	
Office Manager	Edison Community College Offerings: Accounting, A.A.B., certificate and short-term certificates	
Payroll and Timekeeping     Clerks	Business, A.S., and short-term certificate Business Management, General Business Studies, A.A.B. and certificate Business Management, Human Resources Management, A.A.B., certificate, and short-term certificate Business Management, Marketing, A.A.B., and certificate	
Property and Real Estate     Manager		
Receptionist	Business Management Entrepreneurship A.A.B., certificare Real Estate Certificate and short-term certificate	
Secretaries	Occupational Healthcare and Administration, Administrative Assistant, A.A.B., and certificate Medical Coder certificate Medical Office Support, A.A.B. and certificate Medical Office Support A.A.B. and certificate	
Statisticians		

OCCUPATIONS	Construction Technologies
Architect	Do you often observe and note the buildings around you? Do you like to work with your hands? Can you visualize objects and projects in your mind? Do you like to create models or make designs? Do you like to work with tools, objects, and numbers? Do you like to use both mental and manual skills to solve problems? Do you like to work both alone and with others?  If you answered yes to two or more of the questions above, you might be interested in considering a career in architecture and construction.
Cabinetmaker	
Carpenter	
Cement Mason	
Construction Manager	
Drafters	
Drywall Installers	If you work in occupations in the Architecture and Construction
Electrician	cluster, you would be responsible for buildings and other structures such as highways and bridges. You might make designs and plans
Floor and Carpet Installer	for new structures. Or, you would use the plans to build new structures and manage construction workers. Another option would
General Construction     Worker	be to take care of, repair, and restore existing structures.  Helpful Piqua High School Electives:
Heating and Cooling     System Mechanics	Exploring Technology Engineering Design Construction Technology Fashion Design and Construction Interior Design, Furnishings, and Management Art I: Introduction to Art Art II: Drawing/Painting Art III: Studio Art AP Studio Art: 2D Design/Drawing
Highway Maintenance     Worker	
Interior Designer	
Janitor	
Landscape Architect	Upper Valley Career Technology Center Offerings: Construction Technologies
Painter	Electrical Trades HVAC/R Landscape Management Masonry, Plumbing, And Mechanical Systems Pre-Engineering and Design Technologies Welding Technologies  Edison Community College Offerings: Equipment Maintenance Technology, A.A.S. HVAC/R, certificate
Plumber	
Roofer	
Sheet Metal Worker	
Surveyor	

OCCUPATIONS	Education and Training	
Adult and Vocational Education Teachers	Are you patient? Have you coached sports activities? Do you like to speak in front of groups? Have you helped out in a school or library?	
Coaches and Scouts		
College and University     Administrators	Do you enjoy teaching games to children? Are you outgoing? Do you like being in school?	
Elementary School     Teachers	If you answered yes to two or more of the questions above, you might be interested in considering a career in education and training.	
Fitness Trainers and Aerobics Instructors	In the Education and Training cluster, you would have the opportunity to guide and train young people. As a teacher, you could influence young lives. In addition, you could support the work of the	
High School Teachers	influence young lives. In addition, you could support the work of the classroom teacher as a counselor, librarian, or principal. If you are	
Librarians	interested in working with adults, you could provide training to employees in a business. Each of these settings provides you with the chance to help people learn and improve their lives.	
Middle School Teacher		
Preschool and Kindergarten Teacher	Helpful Piqua High School Electives: Speech Psychology	
Special Education Teacher	Child Development Mentoring	
Speech Pathologist and Audiologist	Sociology AP Physics AP Biology	
Teacher Aides	AP Chemistry	
University and College Teacher	Upper Valley Career Technology Center Offerings: Early Childhood Education and Care Teacher Academy	
	Edison Community College Offerings: Early Childhood Education, A.A.S. Child Development Associate short-term certificate Education-Elementary, A.A. Education-Middle School, A.A. and A.S.	

OCCUPATIONS	Engineering and Science Technologies	
Aerospace Engineers	Is Science one of your favorite subjects?	
Anthropologists	Do you prepare projects for science fairs? Do you enjoy reading science magazines?	
Archeologists	Are you detail-oriented? Do you want to know how things work?	
Astronauts	If you answered yes to two or more of the questions above, you	
Bioengineers	might be interested in considering a career in science, technology, engineering, or mathematics.	
Biologists	If you choose to work in the Science, Technology, Engineering,	
Biomedical Engineers	and MAthematics cluster, you have several avenues. One option is to do scientific research in laboratories or the field. You could	
Cartographers	also be involved in the planning and design of products and systems. The last route is to provide support to the scientists,	
Chemists	mathematicians, and engineers so they can do their work.	
Civil Engineers	Helpful Piqua High School Electives:	
Electrical & Electronics Engineers	AP Biology AP Chemistry	
Energy Engineers	Physics AP Physics	
Environmental Engineers	Exploring Technology Robotics Astronomy Sociology WSU Pre-Calculus WSU Calculus	
Environmental Scientists		
Geographers		
Geologists and Geophysicists	Statistics and Probability Engineering Design	
Historians	Aviation I, II, III, IV	
Industrial Engineers	Upper Valley Career Technology Center Offerings:	
Manufacturing Engineers	Electronics and Automation Pre-Engineering and Design Technologies	
Marine Biologist	Edison Community College Offerings:	
Mathematicians	Mechanical EngineeringTechnology, A.A.S. Advanced Manufacturing, certificate and fast track	
Mechanical Engineers	CAD, certificate and fast track CNC Programming, fast track	
Meteorologists	Electronics Engineering Technology, A.A.S. Automation and Robotics A.A.S. and certificate	
Nuclear Engineers	Electro-Mechanical Engineering A.A.S. and certificate Electronics Transfer A.A.S.	
Physicists	Electronics Networking Certificate and short-term certificate  Basic Electricity short-term certificate	
Political Scientists	Factory Automation short-term certificate	
Sociologists	Industrial Electrical Controls short-term certificate Print Reading and Controls short-term certificate	

# Engineering

I want to be a <u>Mechanical</u> <u>Engineer</u>	I want to be an <u>Electronics</u> or <u>Electrical Engineer</u>	I want to work as a <u>Machinist</u> or <u>Manufacturing Engineer</u>
Piqua HS 4 yrs. CP English/AP English WSU Pre-Calc Statistics & Probability WSU Calculus Physics AP Physics Engineering Design Economics Exploring Technology Chemistry/PreAP Chemistry AP Chemistry Robotics	Piqua HS 4 yrs. CP English/AP English WSU Pre-Calc Statistics & Probability Exploring Technology Sociology Chemistry/PreAP Chemistry AP Chemistry Physics AP Physics Economics WSU Calculus Engineering Design Robotics	Piqua HS 4 yrs. CP English/AP English Exploring Technology Psychology Statistics & Probability Sociology Chemistry/PreAP Chemistry AP Chemistry Physics AP Physics WSU Calculus Engineering Design Robotics
Upper Valley Career Center Pre-Engineering and Mechanical Design Technologies	Upper Valley Career Center Pre-Engineering and Mechanical Design Technologies	Upper Valley Career Center Manufacturing and Machining Technologies Welding
<b>2-Year College</b> Mechanical Engineering Technology	2-Year College Electronics Engineering Technology	UV Career Center Adult Precision Tooling and Manufacturing
4-Year University Mechanical Engineering	4-Year University Electrical Engineering	2-Year College MET, Advanced Manufacturing Systems Option
Graduate School  Mechanical Engineering	Graduate School Electrical Engineering	<b>4-Year University</b> Manufacturing Engineering
		Graduate School Industrial Engineering
Ohio Job Outlook Growth rate: MET (2-yr): 5-10% ME (4-yr): 5-10% Annual Openings: MET (2-yr): 4,000 ME (4-yr): 20,200	Ohio Job Outlook Growth rate: EET (2-yr): 1-5% EE (4-yr): 5-10% Annual Openings: EET (2-yr): 11,000 EE (4-yr): 13,700	Ohio Job Outlook Growth rate: Machinist: 5-10% MET (2-yr): 5-10% ME (4-yr): 10-15% Annual Openings: Machinist: 41,200 MET (2-yr): 4,000 ME (4-yr): 23,300
Median Ohio Salary MET (2-yr): \$58,230 ME (4-yr): \$90,160	Median Ohio Salary EET (2-yr): \$67,550 EE (4-yr): \$100,830	Median Ohio Salary Machinist: \$45,840 MET (2-yr): \$58,230 ME (4-yr): \$88,950

OCCUPATIONS	Finance
Accountants and Auditors	Are you the treasurer of a club or organization?
Actuaries	Do you enjoy working with numbers? Do you balance your checkbook? Are you interested in the stock market? Do you like to operate calculators? Are you comfortable following detailed plans for work?
Appraisers	
Bank Tellers	
Bill Collectors	If you answered yes to two or more of the questions above, you might be interested in considering a career in finance. In the
Brokerage Clerks	occupations in the Finance cluster, you would keep track of money. You might provide financial services to a business or individual. Your
Budget Analysts	work could include maintaining records or giving advice to business executives on how to operate their business. You could work in financial planning, baking, or insurance.  Helpful Piqua High School Electives Speech Finance and Banking Economics WSU Calculus Statistics and Probability Quantitative Reasoning
Credit Analysts	
Credit Checkers	
Economists	
Financial Analysts	
Financial Examiners	
Insurance Adjusters	Edison Community College Offerings Accounting, A.A.B. and certificate
Insurance Agents	Accounting Clerk short-term certificate Tax Consultant short-term certificate
Insurance Underwriters	Economics, A.S. Mathematics, A.S.
Loan Clerks	
Loan Officers	
Securities Salespeople	
Tax Preparers	
Title Examiners	

OCCUPATIONS	Government and Public Administration
Compliance Officers and Inspectors	Have you served as an officer of a club or organization?  Do you like to plan and organize activities?
Construction and Building     Inspectors	<ul> <li>Are you interested in politics?</li> <li>Would you like to work in another country?</li> <li>Are rules and laws important to you?</li> </ul>
Foreign Service Officers	If you answered yes to two or more of the questions above, you
Government Benefits     Interviewers	might be interested in considering a career in government and public administration.
Interpreters and Translators	Through the national, state, and local government, the public can express its will and make our way of life possible. Through
License Clerks	government, individuals can act together to accomplish what cannot be done alone. Most of these actions are carried out only by the
Mail Carriers	government. For example, the federal government includes the military for protection. It also includes ambassadors who represent us in foreign countries. It is Congress that passes laws. The Administration carries out and enforces those laws. You would find almost every occupation within the government. However, this Government and Public Administration career cluster focuses on
Meter Readers	
Postal Clerks	
Postmasters and Mail     Superintendents	those occupations that are unique.  Helpful Piqua High School Electives
Social and Community     Services Managers	AP Government Economics World Language
Social Science Research     Assistants	Psychology Sociology AP World history
Tax Examiners	Statistics and Probability AP Government and Politics
Transportation Inspectors	ECC US History Current Events
Urban and Regional     Planners	Service Learning

OCCUPATIONS		Health Science
Anesthesiologists	Nuclear Medicine Technologies	Are science classes your favorite?  Do you enjoy helping people?
Athletic Trainer	Nurse     Anesthetists	Have you served as a volunteer in a hospital?  Do you follow instructions exactly?  Can you work fast in an emergency?
Chiropractor	Nurse     Practitioners	Do you take good notes in class?  If you answered yes to two or more of the questions
Dental Hygienists	Gynecologists	above, you might be interested in considering a career in health science.
Dental lab Techs	Pediatrician	In the Health Science cluster you would promote
Dentist	Pharmacists	health and wellness or diagnose and treat injuries and disease. You could work directly with people.
Dermatologists	Phlebotomists	You could work in laboratories to get information used in research or diagnosis. Health service
Dietitians	Physical     Therapist	employees may work in hospitals, offices, or laboratories. Others work on cruise ships, at sports arenas, or within communities.
Emergency Medical Technicians	Physicians     Assistant	Helpful Piqua High School Electives Child Development
Exercise     Physiologist	Podiatrists	AP Chemistry AP Biology Medical Terminology
General Practitioner	Psychiatrist	Introduction to Human Body Systems Anatomy and Physiology
Health Services     Administrators	Radiologists	Introduction to Healthcare Health Careers Lab Speech
Home Health Aides	Registered Nurse	Athletic Training Sociology
Licensed Practical     Nurses	Surgeons	Statistics and Probability Psychology Higher level math classes
Massage     Therapists		Upper Valley Career Technology Center Offerings
Medical Assistants		Medical Careers Academy Exercise Science
Medical Lab Techs		Edison Community College Offerings
Medial Scientists		Emergency Medical Technician short-term certificate
Medical Secretaries		Medical Assistant certificate Medical Lab Technician, A.A.S.
MRI Technologist		Clinical Laboratory Assistant certificate Registered Nursing, A.A.S. LPN/ADN Transition, A.A.S. Phlebotomy short-term certificate Physical Therapy Assistant, A.A.S.

# Health Sciences

I want to be a <u>Nurse</u>	I want to be a <u>Medical Lab</u> <u>Technician</u>	I want to be a Physical Therapist or Physical Therapist Assistant
Piqua HS 4 years CP English/AP English 4 years CP Math WSU Pre-Calculus Statistics & Probability Psychology Chemistry Intro to Human Body Systems Medical Terminology Anatomy and Physiology Intro to Healthcare Health Careers Lab	Piqua HS 4 years CP English/AP English 4 years CP Math WSU Pre-Calculus Statistics & Probability Sociology Psychology Chemistry Intro to Human Body Systems Medical Terminology Anatomy and Physiology Intro to Healthcare Health Careers Lab	Piqua HS 4 years CP English/AP English 4 years CP Math WSU Pre-Calculus Chemistry AP Physics Sociology Psychology Athletic Training Intro to Human Body Systems Medical Terminology Anatomy and Physiology Intro to Healthcare Health Careers Lab
Upper Valley Career Center Medical Careers Academy	Upper Valley Career Center Medical Careers Academy	Upper Valley Career Center Exercise Science
Upper Valley CC Adult Ed LPN	2-Year College Medical Laboratory Technician	2-Year College Physical Therapy Assistant
2-Year College Registered Nursing LPN to RN Program  4-Year University Bachelor of Science in Nursing  Graduate School Nurse Practitioner	4-Year University Medical Laboratory Science  Graduate School Medical Laboratory Science	4-Year University Pre-Physical Therapy  Graduate School Physical Therapy
Ohio Job Outlook Growth Rate: LPN: 5-10% RN: 5-10% NP: 15%  Annual Openings: LPN: 60,700 RN: 195,500 NP: 26,000	Ohio Job Outlook Growth Rate: MLT: 10-15% MLS: 15%  Annual Openings: MLT: 25,900 MLS: 12,600	Ohio Job Outlook Growth Rate: PTA: 15% PT: 15%  Annual Openings: PTA: 16,400 PT: 15,600
Median Ohio Salary LPN: \$48,820 RN/BSN: \$75,330 NP: \$111,680	Median Ohio Salary MLT: \$54,180 MLS: \$91,510	<b>Median Ohio Salary</b> PTA: \$59,770 PT: \$91,010

OCCUPATIONS	Hospitality and Tourism
Baggage Porters and Bellhops	Can you talk easily with all kinds of people and put them at ease?  Do you participate in athletic activities?
Baristas	Do you enjoy traveling? Have you worked in a restaurant?
Caterers	Do you like to plan family recreational activities? Do you like to cook?
Chefs and Dinner Cooks	If you answered yes to two or more of the questions above, you
Concierges	might be interested in considering a career in hospitality and tourism.
Counter Attendants	In the Hospitality and Tourism cluster, you could work in a
Fast Food Cooks	restaurant, hotel, sports arena, or travel agency. You might manage students on a trip to Spain. You might rent equi[ment at a recreation
Food Preparation Workers	center.
Hotel and Motel Managers	Helpful Piqua High School Electives World Language
Janitor and Housekeeper     Supervisors	Culinary Fundamentals Global Foods Nutrition and Wellness
Recreation Attendants	Speech
Recreation Workers     Reservation and Ticket     Agents	Upper Valley Career Technology Center Offerings Culinary Arts
Restaurant Hosts	
Restaurant Managers	
Tour Guides	
Travel Agents	
Waiters and Waitresses	
Wedding Planners	

OCCUPATIONS	Human Services
Addictions Counselors	Do you help friends with their personal problems?  Have you planned programs for school or community organizations?  Are you a good listener?
Barbers	
Child Care Workers	Do you care about people and want to help in some way? Have you cared for children or done babysitting?
Clergy	Do you like to help friends and family members look their best?
Customer Service     Representatives	If you answered yes to two or more of the questions above, you might be interested in considering a career in human services.
Embalmers	In the Human Services cluster, you would work with individuals and families to meet their personal needs.
Financial Counselors	Helpful Piqua High School Electives
Funeral Attendants	Child Development Psychology
Funeral Directors	Sociology Speech
Genetic Counselors	Mentoring AP World History
Hairstylists and     Cosmetologists	Statistics and Probability Quantitative Reasoning World Languages
Dry Cleaning Workers	Upper Valley Career Technology Center Offerings
Manicurists	Cosmetology Nails Technologies
Marriage and Family     Therapists	Early Childhood Education and Care  Edison Community College Offerings
Mental Health Counselors	Social Services, A.A.S. Social Work, A.A.
Professional Organizers	Psychology, A.A. or A.S. Philosophy, A.A.
Psychologist	Rehabilitation Services, A.A.
Rehabilitation Counselors	
Residential Counselors	
School Counselors	
School Psychologists	
Social and Human Services     Assistants	
Social Workers	
Tattoo Artists	

OCCUPATIONS	Information Technology
Computer and     Information Systems     Managers	Do you enjoy working with computers and learning new programs quickly?  Have you created your own webpage?
Computer Engineers	Is mathematics a favorite subject? Are you organized and able to focus on details?
Computer Security     Specialists	If you answered yes to two or more of the equations above, you might be interested in a career in information technology.
Computer Support     Specialists	Information Technology (IT) is an area that is growing and always changing with new developments in IT, you would be part of a cluster
Computer Systems     Administrators	that continues to make an impact on society and individuals. You would have the opportunity to work in all types and sizes of businesses.
Computer Systems     Analysts	Employees in Information Technology work with computer hardware, software, multimedia, and network systems. In this cluster, you might design new computer equipment or computer games. Or you might make sure that the software or networks are working. In addition, you
Database Administrators	might have to make sure that people know how to use them. Or you might manage whole networks that link workers in all parts of the world.
Web Developers	Helpful Piqua High School Electives: WSU Pre-Calculus WSU Calculus Statistics and Probability Piqua Digital Weekly Introduction to Design Visual Design Digital Video Interactive Design Photoshop Premiere Pro
	Upper Valley Career Technology Center Offerings: Computer Information Technologies Interactive Media  Edison Community College Offerings: Business Systems, A.A.B. and certificate Cybersecruity, A.A.B. Network Administration, A.A.B. Systems Administration, A.A.B. Computer Engineering, A.S. CIS certificare Database Specialist certificate Networking certificate Programming certificate and short-term certificate Basic Computer Skills short-term certificate Help Desk short-term certificate Software Testing short-term certificate

# Information Technology

# I want to work as a <u>Computer Programmer</u>, <u>Information</u> <u>Systems Manager</u>, or <u>Computer Security Specialist</u>

Piqua HS
4 years CP English/AP English
WSU Pre-Calculus
Statistics & Probability
Sociology
Psychology
WSU Calculus
Physics
AP Physics
Engineering Design
Intro to Design
Visual Design
Digital Video
Premiere Pro
Piqua Digital Weekly

# **Upper Valley Career Center**

Interactive Media
Computer Information Tech

#### 2-Year College

Computer Information Technology

# **4-Year University**

**Computer Science** 

#### **Graduate School**

Master of Business Administration Management Information Systems

# **Ohio Job Outlook**

Growth Rate: CP: -1% or lower ISN: 10-15% CSS: 15% or higher

# **Annual Openings:**

CP: 9,700 ISN: 42,400 CSS: 16,300

# **Median Ohio Salary**

CP: \$89,190 ISN: \$151,150 CSS: \$103,590

OCCUPATIONS		Law and Public Safety
Ambulance     Drivers	• Judges	Are you able to work under pressure? Can you work with various kinds of people? Do you like to help people?
Animal Control Workers	Law Clerks	Can you like to help beople?  Can you work in the face of danger?  Are you good at winning arguments?  Do you instruct friends and family members on laws
Mediators	Lawyers	and regulations?
Bailiffs	Legal Secretaries	If you answered yes to two or more of the questions about, you might be interested in considering a
Border Patrol     Agents	Life Guards and Ski Patrollers	career in law, public safety, or security.
• Coroners	Paralegals	If you are interested in working in this cluster, you have several options. One option is to guard the
Corrections     Officers	Parking     Enforcement     Officers	public by enforcing the law, or you might provide fire protection and security. Another option is to provide legal services to people who commit crimes.
Court Clerks	Police     Supervisors	Helpful Piqua High School Electives: AP Government World Language
Crossing Guards	Police Patrol     Officers	Psychology Speech Law Enforcement Pre-Apprenticeship
Detectives	Private Detectives	Edison Community College Offerings:
Emergency     Management     Specialists	Probation Officers	Criminal Justice, A.A.S. and A.A. Criminal Justice/Computer Forensics, A.A.S. Peace Officer Academy short-term certificate Paralegal Studies, A.A.B.
Fire Fighters	Secret Service     Agents	Emergency Medical Technician short-term certificate
Fire Inspectors	Security Guards	
Fire Investigators	Sheriffs	
Forensic Science     Technicians	Transportation     Security Agents	

oc	CUPATIONS	Manufacturing Technologies
•	Chemical Engineers	Are you good with working with your hands?
•	Chemical Plant Operators	Can you explain to others how a machine works?  Do you set up and repair stereo equipment for yourself or
•	Coin and Vending Machine Repairs	friends?  Do you enjoy reading the latest developments in electronics?
•	Forklift Operators	Can you visualize how a machine works?
•	Geothermal Technicians	If you answered yes to two or more of the questions above, you might be interested in considering a career in
•	Home Electronic Repairs	manufacturing, installation or repair.
•	Hydroelectric Production Managers	In the Manufacturing career cluster, you can choose one of several options. You might design a new product or determine how the product will be made. Another option is to
•	Jewelers	make the product once it has been purchased.
•	Locksmiths	Helpful Piqua High School Electives: Exploring Technology
•	Machinists	Engineering Design Robotics
•	Packers and Packagers	Mechatronics I and II
•	Power Plant Operators	Upper Valley Career Technology Center Offerings: Electronics
•	Precision Assemblers	Manufacturing and Machining Technologies Welding
•	Quality Control Inspectors	Edison Community College Offerings:
•	Safety Engineers	Industrial Operations, A.A.S. Operations Technology, A.A.S and certificate
•	Security/Fire Alarm Systems Installers	Supply Chain Management certificate and short-term certificate  Basic Human Relations short-term certificate
•	Sewing Machine Operators	Lean Manufacturing short-term certificate  Manufacturing Management short-term certificate
•	Shoe and Leather Workers	Quality Management short-term certificate Six Sigma short-term certificate
•	Tailors	
•	Tool and Die Makers	
•	Tool Grinders	
•	Watch Repairers	
•	Welders	
•	Wind Turbine Technicians	
•	Woodworking Machine Operators	

OCCUPATIONS	Marketing
Advertising Salespeople	Do you sell advertising space for the school yearbook or newspaper?
Buyers and Purchasing Agents	Do you like to do public speaking or debating?  Are you good at organizing your own time?  Have you helped convince people to participate in an activity?
Cashiers	Are you friendly and outgoing?
Counter and Rental Cleri	1. j = 1
Customer Service     Manager	might be interested in considering a career in marketing, sales, and service.
Demonstrators and Promoters	If you are interested in working in the Marketing cluster, you would help businesses sell products. You might advertise and promote products so customers would want to buy them. You might sell
Floral Designers	products and services directly to customers. You might use the Internet to reach customers.
Market Research Analys	' ' '
Marketing Managers	Speech Yearbook
Merchandise Displayers	Statistics and Probability WSU Pre-Calculus
Models	WSU Calculus Economics
Opticians	Introduction to Design Visual Design
Parts Salespeople	Digital Video Interactive Design
Public Relations Manage	
Purchasing Managers	Edison Community College Offerings:  Marketing, A.A.B. and certificate
Real Estate Agents	Real Estate certificate and short-term certificate
Retail Salespeople	
Route Salespeople	
Sales Managers	
Sales Representatives	
Sales Worker Supervisor	rs
Telemarketers	

OCCUPATIONS	Transportation Systems
Air Traffic Controllers	Would you enjoy working outdoors in all kinds of weather? Do you have good eyesight and quick reflexes? Can you estimate distances accurately? Do you drive trucks or tractors to do work on a farm? Would you like to learn to fly an airplane?
Aircraft Mechanics	
Airplane Pilots	
Auto Body Repairers	Do you repair your or your family and friends' vehicles? Do you like to read automotive or mechanical magazines?
Bus and Truck Mechanics	If you answered yes to two or more of the questions above, you
Bus Drivers	might be interested in considering a career in transportation, distribution, and logistics.
Deckhands	If you are interested in working in this cluster, you have three
Dispatchers	avenues. One is to move people and products by road, air, rail, or water. YOu would drive or pilot different means of transportation.
Flight Attendants	The second is to repair and maintain the vehicles, trains, plains, and ships to keep people and products moving. The third option is to
Freight Handlers	work behind the scenes to make sure the products and people get to the right place on time.
Heavy Equipment     Mechanics	Helpful Piqua High School Electives: Exploring Technology
Heavy Truck Drivers	Engineering Design Robotics
Light Truck Drivers	Aviation I, II, III, IV
Locomotive Engineers	Upper Valley Career Technology Center Offerings: Auto Collision Repair Technologies
Motorboat Mechanics	Auto Services Automotive Technologies
Motorcycle Mechanics	Edison Community College Offerings:
Parking Lot Attendants	Professional Pilot, A.A.S. Single-Engine Commercial Pilot certificate
Riggers	
Service Station Attendants	
Ship Engineers	
Taxi Drivers and Chauffeurs	
Train Conductors	
Transportation Agents	
Vehicle Cleaners	

# Four-Year Schedule

(	one box for your intended career plans: College Employment Military Undecided				
Do you	Do you want to attend the Upper Valley Career Center? What do you want to study after high school?				
9th	Semester I: Course and Number	Semester II: Course and Number	Credits		
1					
2					
3					
4					
5					
6					
7					
4011			0 1"		
10th	Semester I: Course and Number	Semester II: Course and Number	Credits		
1					
2					
3					
4					
5					
6					
7					

11th	Semester I: Course and Number	Semester II: Course and Number	Credits
1			
2			
3			
4			
5			
6			
7			

12th	Semester I: Course and Number	Semester II: Course and Number	Credits
1			
2			
3			
4			
5			
6			
7			

112 ENGLISH 9 COLLEGE PREP	GRADE: 9
PREREQUISITE: none	1 CREDIT

The course will concentrate on reading, writing in various genres including a research project and using communication skills needed for successful completion of college. Students will study a variety of literary genres, use analytical and critical thinking skills, and learn advanced composition skills. Grammar skills will be reinforced. Requirements for this class include independent reading, independent study, group work, in-class reading and discussion, and at least one classic novel. Students are expected to complete homework on a regular basis.

113 PRE-AP ENGLISH 9	GRADE: 9
PREREQUISITE: B English 8, Accelerated or Advanced on AIR	1 CREDIT

This course is for students who are planning to take Advanced Placement (AP) English in their junior and/or senior year. It is recommended for students who are highly motivated and definitely college-bound. The course concentrates on extensive reading, writing, analysis, and vocabulary. Students in this class should have a working knowledge of the rules of grammar and of literary elements and terms. Students should be able to work independently. Selections follow the College Board's recommendation for Pre-AP ninth grade reading.

122 ENGLISH 10 COLLEGE PREP	GRADE: 10
PREREQUISITE: English 9 CP or teacher approval	1 CREDIT

This course is designed for the student planning to attend college. Students will be studying world literature with an emphasis on the 10th grade Ohio Academic Standards, including the areas of reading, writing, acquisition of vocabulary, research, and oral and visual communications. Collaborative learning and independent study will be used to complete projects and assignments.

123 PRE-AP ENGLISH 10	GRADE:10
PREREQUISITE: C or better in Pre-AP Eng 9 or Eng 9CP with teacher approval	1 CREDIT

This course is designed for students who are planning to take Advanced Placement (AP) English in their junior and/or senior year. Extensive reading and writing will be the focus. Oral participation, organization and time management skills are essential for success. Thematic studies of literature will concentrate on analytical and critical thinking skills. Students should be able to work independently.

132 ENGLISH 11 COLLEGE PREP	GRADE: 11
PREREQUISITE: English 10 CP or teacher approval	1 CREDIT

American Literature, composition, vocabulary, and oral communication are the focus of English 11. Students who take this class should be planning to attend a four-year college or university after graduation. Students are expected to work independently and utilize critical thinking skills. Students will also prepare to take the ACT and SAT tests for admission to college.

133 AP ENGLISH LANGUAGE AND COMPOSITION	GRADE: 11
PREREQUISITE: Pre-AP Eng 10 or Eng 10 with teacher approval	1 CREDIT

Students are required to complete a summer assignment. It is strongly recommended that students planning to attend a selective four-year university after graduation consider taking this course regardless of planned major. Advanced Placement Language and Composition engages students in becoming skilled readers of prose written in a variety of periods, disciplines, and rhetorical contexts, and in becoming skilled writers who compose for a variety of purposes. Students will discover the interactions among a writer's purposes, audience expectations, and subjects as well as the way conventions and the resources of language contribute to effectiveness in writing. Writing assignments focus on expository, analytical, and argumentative essays as well as personal and reflective writing. A focused research project will be required towards the end of the course. The course prepares students for the AP test in the spring when college credit may be earned. Students must have access to a working, reliable printer as multiple copies of essay assignments are required for peer review.

155 SPEECH COMMUNICATIONS	GRADES: 10-12
PREREQUISITE: None	1 CREDIT

Students will learn about the communication process and the types of oral communication, concentrating on public speaking. Students will research, compose, and deliver informative, process, and persuasive speeches. Listening to and evaluating others' speeches will also be stressed. Speech is a suggested course for those planning on attending college since it will prepare students for the presentations that are required for most majors. *This course is for elective credit only.* 

142 ENGLISH 12 COLLEGE PREP	GRADE: 12
PREREQUISITE: English 11 CP	1 CREDIT

Students enrolling in this course should be planning to attend a two-year or four-year university. Emphasis will be on developing post-secondary skills in reading comprehension, advanced composition research, vocabulary, and collaborative activities. An independent, substantial, literary-based research project will be required of all students. The course will be divided into quarterly themes which will be explored through various novels, memoirs, non=fiction texts, plays, poems, short stories, and current events from around the world. Students should expect to invest time outside of class in reading. Those who do not study regularly do not tend to be successful in this class.

143 AP ENGLISH LITERATURE AND COMPOSITION	GRADE: 12
PREREQUISITE: AP Eng Lang & Comp or Eng 11CP with teacher approval	1 CREDIT

Students are required to complete a summer assignment. It is strongly recommended that students planning to attend a selective four-year university after graduation consider taking this course regardless of planned major. Advanced Placement Literature and Composition engages students in the careful reading and critical analysis of imaginative literature. Through an intensive study of representative works from various genres and periods, accompanied by thoughtful discussion and writing, students should deepen their understanding of the ways authors use language to provide meaning. Careful attention to both textual detail and historical context will be considered when analyzing the work. Writing assignments focus on the critical analysis of literature, and include expository, analytical, and argumentative essays. The course prepares students for the AP test in the spring where college credit may be earned. The AP Literature and Composition course develops critical and analytical reading and writing skills.

151 YEARBOOK	GRADES: 10-12
PREREQUISITE: Application and teacher approval	1 CREDIT

The purpose of the Yearbook Class is to develop the skills needed to produce a quality high school yearbook. Emphasis is placed on writing, graphics, photography, and advertising. Students will participate in all phases of production. Journalistic writing, photography analysis, and promotional advertising will be studied and used as the book is created. Students with photography experience and interest in writing or business management are especially encouraged to enroll. Yearbook work is frequently time consuming, and students will be required to participate in some after school sessions. There will be a summer assignment. *This course is for elective credit only.* 

144 ECC ENGLISH COMPOSITION I	GRADES: 9-12
PREREQUISITE: Meet Edison CCP requirements	1 CREDIT

Study and practice of essay writing by reading published authors and producing college-level writing for a variety of audiences and purposes. Employs critical thinking and analytical skills in both formal and informal writing. Formal writing is based on reporting information, narration, analysis, and research. All writing will stress Standard English, organization and style. Students will receive 3 credits for ENG 121s English Composition I from Edison State Community College. \*This course may reflect a typical college course schedule offered for two periods, two days per week.

145 ECC ENGLISH COMPOSITION II	GRADES: 9-12
PREREQUISITE: Meet Edison CCP requirements	1 CREDIT

Study and practice of essay writing, including formal essays, reviews, and research papers, based on the study of logic and library research. Writings will stress organization, argument, referencing techniques, and the use of standard English. Students will receive 3 credits for ENG 122s English Composition II from Edison State Community College. \*This course may reflect a typical college course schedule offered for two periods, two days per week.

310/311 ALGEBRA I & MATH RTI SUPPORT I	GRADE: 9
PREREQUISITE: Teacher Approval	2 CREDITS

This course will meet the requirements of the Common Core Standards for Algebra I. The course will include pre-algebra, linear algebra, polynomials, functions, exponents, and quadratic equations. Problem solving techniques and application of math concepts to real situations will be the emphasis of this course. This course will meet for two consecutive periods per day, and it requires the ability to learn both independently and in small groups. Students must pass 16 Algebra units to earn an Algebra credit, thus allowing them to move on to Geometry. The Math RTI Support class counts as elective credit. To qualify for this course, students must take an Algebra Readiness Assessment in 8th grade AND be recommended by their math teacher. Material needed: TI-84 Plus calculator

312 ALGEBRA I	GRADE: 9
PREREQUISITE: None	1 CREDIT

This course meets the requirements of the Common Core Standards for Algebra I. The course will include pre-algebra, linear algebra, polynomials, functions, exponents, and quadratic equations. Problem solving techniques and application of math concepts to real situations will be the emphasis of this course. Materials needed: TI-84 Plus calculator

322 GEOMETRY	GRADES: 9-12
PREREQUISITE: Algebra I	1 CREDIT

This course will meet the requirements of the Common Core Standards for Geometry. The course will include plane geometry, logical reasoning, right triangle trigonometry, and probability. Problem solving techniques and application of math concepts to real situations will be the emphasis of this course. Materials needed: TI-84 Plus calculator

323 ADVANCED GEOMETRY	GRADES: 9-12
PREREQUISITE: Adv. Algebra 1 or A/B in Algebra 1	1 CREDIT

This course will meet the requirements of the Common Core Standards for Geometry. The course will include plane geometry, logical reasoning, right triangle trigonometry, and probability. Problem solving techniques and application of math concepts to real situations will be the emphasis of this course. Advanced Geometry will include a more in-depth study of geometric proofs and theorems in preparation for STEM careers. Materials Needed: A TI-84 Plus calculator.

332 Algebra II	GRADES: 9-12
PREREQUISITE: Geometry	1 CREDIT

This course will meet the requirements of the Common Core Standards for Algebra II. The course will include linear algebra, polynomial functions, exponential and logarithmic functions, rational equations, trigonometry, and data analysis. Problem solving techniques and application of math concepts to real situations will be the emphasis of this course. This course will fulfill the graduation requirement for Algebra II. Materials needed: TI-84 Plus calculator

347 QUANTITATIVE REASONING	GRADES: 10-12
PREREQUISITE: Geometry	1 CREDIT

Critical thinking and reasoning are the primary objectives and outcomes of this advanced quantitative reasoning course. It includes the application of mathematical skills including algebraic methods to the analysis and interpretation of quantitative information (numbers in context) in real-world situations to make decisions that are relevant to daily life. Additionally, the course emphasizes interpretation, precision, representation, calculation, analysis/synthesis, use of assumptions and communication through student presentations and writing. Students combine problem solving with modeling to analyze real-life situations and devise solution strategies. These habits and skills cut across disciplines, promote perseverance, and provide a gateway into successful postsecondary education and a variety of careers. \*This course is equivalent to Algebra II and will fulfill the graduation requirement for Algebra II.

333 ADVANCED ALGEBRA II	GRADES: 9-12
PREREQUISITE: A/B in Algebra or teacher approval	1 CREDIT

This course will meet the requirements of the Common Core Standards for Algebra II. The course will include linear algebra, polynomial functions, exponential and logarithmic functions, rational equations, trigonometry, and data analysis. Problem solving techniques and application of math concepts to real situations will be the emphasis of this course. These topics will be studied in more depth than in Algebra II. Advanced Algebra II will also include the study of arithmetic and geometric sequences and series, the binomial theorem, polynomial functions, and the remainder and factor theorems. This course will fulfill the graduation requirement for Algebra II. Materials needed: TI-84 Plus calculator

343 PRE-CALCULUS	GRADES: 10-12
PREREQUISITE: A/B in Algebra II and Geometry	1 CREDIT

Pre-Calculus is designed for the college bound student. This course will give the student the necessary background to succeed in math at the college level. Emphasis is placed on using mathematical concepts to solve practical application problems, such as compound interest, growth and decay, etc. Students will learn about graphing linear and quadratic equations, polynomials as well as rational, exponential, and logarithmic functions. Trigonometric functions and their graphs, trigonometric identities, trigonometric description of complex numbers and roots and powers of real and complex numbers. Material needed: TI-84 Plus calculator

344 WSU PRE-CALCULUS	GRADES: 10-12
PREREQUISITE: Algebra I, Geometry, Algebra II and WSU CCP requirements	2 CREDITS

This is a college level class. Students will receive 4 credits in MTH 1280 College Algebra and 3 credits in MATH 1350 Analytical Geometry and Trigonometry from Wright State University. This course is one period long. Emphasis is placed on using mathematical concepts to solve practical application problems, such as compound interest, growth and decay, etc. Students will learn about graphing linear and quadratic equations, polynomials as well as rational, exponential, and logarithmic functions. Trigonometry topics include basic trigonometric ratios, radians as an angle measure, trigonometric functions and their graphs, trigonometric identities, trigonometric cdescript of complex numbers and roots and power of real and complex numbers. Materials needed: TI-84 Plus calculator

\*This course may reflect a typical college course schedule offered for two periods, two days per week.

355 Statistics and Probability	GRADES: 10-12
PREREQUISITE: Geometry	1 CREDIT

The purpose of Probability and Statistics is to introduce students to the major concepts and tools for collecting, analyzing, and drawing conclusions from data. Students are exposed to four broad conceptual themes: exploring data, sampling and experimentation, anticipating patterns, and statistical inference. Materials Needed: A TI-84 Plus calculator.

351 WSU CALCULUS	GRADES: 11-12
PREREQUISITE: Pre-Calculus, Meet WSU CCP requirements	2 CREDITS

This is a college level class. Students will receive 4 credits in Math 2300 Calculus I and 4 credits in Math 2310 Calculus II from Wright State University. This course is one period long. In the first semester, students will examine limits, the derivative, differentiation, applications of the derivative, antiderivatives, Riemann sums, the definite integral, and the Fundamental Theorem of Calculus. In the second semester, students will investigate integration techniques, applications of the definite integral, first-order differential equations, vectors and vector operations, parametric equations and polar coordinates, and indefinite series. The option will be given to take the AP Calculus BC Exam in May per the student's request. Materials Needed: A TI-84 Plus calculator. \*This course may reflect a typical college course schedule offered for two periods, two days per week

352 AP CALCULUS AB	GRADES: 11-12
PREREQUISITE: Pre-Calculus	1 CREDIT

Advanced Placement Calculus AB is designed to both utilize and expand upon the algebraic and trigonometric concepts learned in Pre-Calculus and previous math courses. It is to introduce the student to a rigorous study of both differential and integral calculus, which a student would typically encounter in a first year college calculus course. In addition, material will also cover an introduction to sequences and series, differential equations and vectors. Students will have the opportunity to earn college credit by taking the AP Calculus AB exam in the spring.

353 FINANCE & BANKING	GRADE: 12
PREREQUISITE: None	1 CREDIT

The subject content is designed to provide students an opportunity to apply the math skills/concepts they have learned throughout high school to real life situations involving personal finance and investments. Topics include wages, taxes, loans, checking and savings accounts, budgeting, credit cards, insurance, and transportation. *This class does not meet the NCAA's standards for core Math.* Materials needed: scientific calculator.

Students may decide to double up in science. Freshman students may double up Core Physical Science and Biology. Sophomore students may double up Biology and Chemistry (Not Pre-AP Chem). All science courses are one period long with the exception of Pre-AP Chemistry, and AP Chemistry.

411 PHYSICAL SCIENCE	GRADES: 9
PREREQUISITE: None	1 CREDIT

Core Physical Science addresses the state's ninth grade standards. The first semester will focus on the basic physics topics such as reference point of view, motion, Newton's Laws, energy, and the transfer of energy. The second semester will focus on the basic chemistry topics such as physical/chemical properties, atomic theory, atomic structure, bonding, law of conservation, and nuclear chemistry. Materials Needed: calculator. School fee: \$20

412 BIOLOGY	GRADES: 9-10
PREREQUISITE: None	1 CREDIT

Biology is a college prep level course designed to address the state's tenth grade standards and teach the fundamental principles of modern life science. Biology will include and expand upon basic concepts such as measurement, graphing, and laboratory procedures. The course will be taught on a pre-college level and will include the following topics: evolution, genetics and heredity, cell structure and function, ecology classification systems, and life processes. School fee: \$20

413 PRE-AP BIOLOGY	GRADES: 9
PREREQUISITE: Current science teacher approval	1 CREDIT

Pre-AP Biology is an advanced college prep level course and is designed to prepare the student for AP Biology. Basic science concepts such as measurement, graphing and lab practices will be reinforced. The bulk of the topics will include; but are not limited to the following: ecology/ecosystems, animal behavior, DNA, gene expression, cellular processes, genetics, and evolution. Course Fee: \$30

422 CHEMISTRY	GRADES: 10-12
PRE/COREQUISITE: Geometry	1 CREDIT

Chemistry is a college prep level course designed to teach the fundamental concepts of matter, its properties and interactions. Basic science concepts such as measuring, graphing, and analyzing data will be reinforced. The bulk of the topics covered will include atomic theory and structure, the mole concept, states of matter, nomenclature, reactions stoichiometry bonding, acids and bases, and organic chemistry. Materials Needed: scientific calculator. School fee: \$20.

423 PRE-AP CHEMISTRY	GRADES: 10-12
PREREQUISITE: Biology and Geometry	1 CREDIT

Pre-AP Chemistry is an advanced college prep level course and is designed to prepare the student for AP Chemistry. Basic science concepts such as measuring, graphing, and analyzing data will be reinforced, along with an introduction to advanced problem solving. The bulk of the topics will include; but are not limited to the following: atomic theory and structure, the mole concept, states of matter, nomenclature, reactions, stoichiometry, bonding, electrochemistry, kinetics, equilibrium, and organic chemistry. Course Fee: \$30

432 PHYSICS I	GRADES: 10-12
PRE/COREQUISITE: None	1 CREDIT

Physics is a college prep level course and is designed to teach the fundamental concepts of modern physics. Basic science concepts such as measuring, graphing and analyzing data will be reinforced. The bulk of the topics covered will include forces, motion, energy, electricity, thermodynamics, light, sound, and atomic structure. Materials Needed: Notebook and scientific calculator. School fee: \$20.

442 PHYSICS II	GRADES: 10-12
PRE/COREQUISITE: Biology or Chemistry, Physics	1 CREDIT

Physics II is a college prep level course and is designed to teach the fundamental concepts of modern physics. This course is taught at a slightly slower pace than AP Physics II and may not go as in-depth on some of the topics. Being a college prep level course emphasis is placed on critical thinking and mathematical problem solving. Topics include Fluids, Temperature and Heat, Kinetic Theory/Thermodynamics, Conductors & Capacitors, Current Electricity, Magnetic Fields, Light and Optics, Modern Physics. School fee: \$20.

453 AP PHYSICS I	GRADES: 10-12
PREREQUISITE: Physics 1	1 CREDIT

Advanced Placement Physics 1 is a college level ALGEBRA-BASED physics course. The objective of this course is to prepare students for the AP exam given in May, which can qualify the student to receive up to one semester of college lecture and lab credit for non-major freshman physics. More emphasis is placed on mathematical problem solving and critical thinking. Topics include: kinematics, dynamics, work, power, energy, linear momentum, circular motion and rotation, gravitation, oscillation, waves, electrostatics, and current electricity. School fee: \$30

460 ANATOMY AND PHYSIOLOGY	GRADES: 10-12
PREREQUISITE: Biology	1 CREDIT

Anatomy and Physiology is a course that will enable students to develop an understanding of the relationships between the structures and functions of the human body. Students will study the major body systems and understand how the body systems work together to provide homeostasis along with how the body functions in the healthy and diseased states. The class is designed for students interested in biological, medical, and health-oriented programs, such as nursing, medicine, and lab technology.

459 ECC ANATOMY AND PHYSIOLOGY	GRADES: 10-12
PRE/COREQUISITE: Meet Edison CCP requirements	2 CREDITS

Anatomy and Physiology is a course that will enable students to develop an understanding of the relationships between the structures and functions of the human body. Students will study the major body systems and understand how the body systems work together to provide homeostasis along with how the body functions in the healthy and diseased states. The class is designed for students interested in biological, medical, and health-oriented programs, such as nursing, medicine, and lab technology. Students will earn 4 credits for BIO 125S Anatomy and Physiology I and 4 credits for BIO 126S Anatomy and Physiology II from Edison State Community College.

450 ASTRONOMY	GRADES: 11-12
PREREQUISITE: Physical Science & Biology	1 CREDIT

Astronomy is a course designed for students of all levels who wish to learn more about the universe. The topics to be covered include, but are not limited to, historical astronomy, astronomical instruments, the celestial sphere, the solar system, the earth as a system in space, the earth/moon system, the sun as a star, and stars. The class involves some algebra-level math. Activities will include several major, long-term projects, as well as daily activities, notes and labs.

451 AP BIOLOGY	GRADES: 11-12
PREREQUISITE: Pre-AP Bio, Pre-AP Chem, & Alg II or teacher approval	1 CREDIT

Chemistry of Life, Cell Structure and Function, Cellular Energetics, Cell Communication and Cell Cycle, Heredity, Gene Expression and Regulation, Natural Selection and Ecology are required units studied at a college level. The objective of this course is to prepare students for the AP exam in May, which can qualify the student to receive college credit. Several hours of homework each week should be expected. School fee: \$40

452 AP CHEMISTRY	GRADES: 11-12
PREREQUISITE: Pre-AP Chemistry	2 CREDITS

Advanced Placement Chemistry is a second year college level chemistry course covering more difficult material and in greater depth than Chemistry. The objective of this course is to prepare students for the AP exam in May, which can qualify the student to receive college credit. Topics include stoichiometry, nomenclature, equilibrium, kinetics, thermodynamics, bonding and atomic theory. This is an extended class period. School fee: \$40

## Social Studies

211 WORLD STUDIES	GRADES: 9
PREREQUISITE: None	1 CREDIT

World Studies is a general survey of the history of the world from the Age of Enlightenment to the present. The course will focus on the events and trends in both European and non-European cultures.

222 U.S. STUDIES CP	GRADES: 10
PREREQUISITE: None	1 CREDIT

The course focus will be on twentieth century America and events in the world that have shaped, altered, and turned the course of our development. Included will be additional out of class work and projects.

223 ECC US HISTORY	GRADES: 10-12
PREREQUISITE: Meet Edison CCP requirements	2 CREDITS

This is a college level course designed to survey U.S. history from the prehistoric period of North America to the present. Students enrolling in this course will earn up to 6 college credits for the school year; 3 credits from Edison in HST 121S History of the U.S. I and 3 credits in HST 122S History of the U.S. II. This course could be taken for one semester per teacher approval. *This course will take one period*.

256 CURRENT EVENTS	GRADES: 9-12
PREREQUISITE: None	½ CREDIT

Current Events promotes student awareness of daily occurrences at the national and international level. Participation in classroom discussions will be strongly emphasized. Course may not be repeated for credit. In addition, a minimal fee may be charged for a limited subscription to a news magazine.

## Social Studies

254 SERVICE LEARNING	GRADES: 9-12
PREREQUISITE: None	½ CREDIT

Service Learning allows students to choose topics to demonstrate skills necessary for active and effective citizenship. Students use knowledge of the rights and responsibilities of citizenship in order to examine and evaluate civic ideals and to participate in community life and the American democratic system. Students collect, organize, evaluate and synthesize information from multiple sources to draw logical conclusions. Service activities meet genuine community needs, provide meaningful tasks for students, and promote communication and collaboration with community members. Students communicate this information using appropriate social studies terminology in oral, written or multimedia form and apply what they have learned to societal issues in simulated and real-world settings. The course includes a community service project. \*Completion of this course will earn students the Community Service Seal towards their diploma.

257 SOCIOLOGY	GRADES: 9-12
PREREQUISITE: None	½ CREDIT

Sociology is a study of basic human motivation in group settings. The emphasis is on the study of the basic social institutions, cultures, minority relations, deviant and conformist behavior, socialization phases, and stratification. Three (3) project papers are required as part of this course.

261 AP WORLD HISTORY	GRADES: 11-12
PREREQUISITE: US History CP or ECC US History	1 CREDIT

This is a college level course. This course will cover broad themes dating back from 8,000 B.C.E. to the present. The themes that will be studied are interaction between humans and the environment; development and interaction of cultures; state-building, expansion, and conflict; creation, expansion, and interaction of economic systems; and development and transformation of social structures. The intense study of this course will look to examine these broad themes, as opposed to more detailed study of individuals and events. By studying AP World History, the student will take the AP exam in the spring with the goal of obtaining college credit for work completed in high school.

## Social Studies

255 PSYCHOLOGY	GRADES: 11-12
PREREQUISITE: None	½ CREDIT

Psychology is the study of the factors and forces that shape the individual human being. In psychology, the student will study those things that make the individual human like and different from all other humans. Topics to be covered will include learning, development, personality, mental health and altered states of consciousness, and abnormal psychology. Psychology is approximately 60% lecture and discussion.

231 GOVERNMENT	GRADES: 11-12
PREREQUISITE: US Studies	1 CREDIT

This course will help the learner understand the American political system, with emphasis on the national government's foundations, structure, and operation. Discussions will cover the role of politics, political parties, the Bill of Rights, public policies, public opinion, voting, and the election process.

253 ECONOMICS	GRADES: 11-12
PREREQUISITE: None	½ CREDIT

Economics is a study of how individuals, businesses, and nations deal with the problem of scarcity, unlimited wants and limited resources (finances). How we deal with this to gain financial stability is called Economics. A student is encouraged to take this course to better understand how the economy works. Fulfills financial literacy requirements.

233 AP GOVERNMENT AND POLITICS	GRADES: 11-12
PREREQUISITE: US Studies and teacher approval	1 CREDIT

AP Government and Politics a college level course. It is designed to give students an analytical perspective on government and politics in the US and involves the study of general concepts used to interpret politics and the analysis of specific case studies. Topics covered in this discussion-oriented course include: constitutional underpinnings of the US government, political beliefs and behaviors, political parties and interest groups, institutions, and processes of the national government. Students will take the AP exam in the spring with the goal of obtaining college.

750 ART I: INTRODUCTION TO ART	GRADES: 9-12
PREREQUISITE: None	½ CREDIT

A PREREQUISITE FOR ALL OTHER ART CLASSES. This is an introductory class into the study of art and design. Students will develop an understanding of the Elements and Principles of Art. Projects will focus on basic composition, drawing, shading and measuring skills; as well as the overall quality of individual artwork. The purpose of this class is to build skills in art and design as well as develop a strong work ethic. This is an important foundation class for those wishing to continue the study of art or design. Course Fee: \$10.

500 INTRODUCTION TO DESIGN	GRADES: 9-12
PREREQUISITE: None	½ CREDIT

This class will focus on projects that are specific to certain design careers, including graphic design, illustration, industrial design, character design, typography, page layout and more. This class will teach students the foundations of design and the design process. Students will connect the work that is done with paper and pencil, to the finished digital work that results in various design careers. Students will receive an introduction to the Adobe Photoshop, Illustrator and Animate programs. They will gain experience using the programs to enhance and finish projects. This class is for any student that plans to continue with the other Design Foundations classes or plans to complete the Credentialed Pathway for graduation. Course Fee: \$10

501 VISUAL DESIGN: FOUNDATIONS OF DESIGN AND PRINT PRODUCTION	GRADES: 9-12
PREREQUISITE: Introduction to Design	½ CREDIT

Visual Design is a project-based curriculum that develops key digital communication skills such as design, project management, research and communication, and photography, graphic design and illustration, and page layout technical skills using Adobe tools. Projects in this course include: Collages and photography, logos, business cards, advertisements, and portfolios. The course is aligned to the objectives required for students to be successful in their future digital career and to satisfy the objective for the Adobe Certified Associate Exams. Counts as elective credit only. Course Fee: \$10

504 DIGITAL VIDEO: FOUNDATIONS OF VIDEO DESIGN AND PRODUCTION	GRADES: 9-12
PREREQUISITE: Introduction to Design	½ CREDIT

Digital Video is a project-based curriculum that develops key digital communication skills such as design, project management, research and communication, and video and audio design and production technical skills using Adobe tools. Projects in this course include: New stories, Public service announcements, portfolios, commercials, and mini-documentaries. The course is aligned to the objectives required for students to be successful in their future digital career and to satisfy the objectives for the Adobe Certified Associate Exams. Counts as elective credit only. Course Fee: \$10

505 INTERACTIVE DESIGN: FOUNDATIONS OF ANIMATION AND INTERACTION DESIGN	GRADES: 9-12
PREREQUISITE: Introduction to Design	½ CREDIT

Interactive Design is a project-based curriculum that teaches digital communication skills in the context of professional animation and interaction design process, using Adobe Animate tools. Interactive Design develops four key skill areas: project management and collaboration, design, research and communication, and professional interactive media authoring tools. Projects in the course include: game design and planning, building a flash game, and constructing a portfolio. The course is aligned to the objectives required for students to be successful in their future digital career and to satisfy the objectives for the Adobe Certified Associate Exams. Course Fee: \$10

754 PHOTOSHOP	GRADES:10-12
PREREQUISITE: Introduction to Design,Visual Design	½ CREDIT

Photoshop is a project-based course detailing step-by-step techniques for working in Photoshop, including how to correct, enhance, and distort digital images, create image composites, and prepare images for print and the web. The course is aligned to the objectives required for students to be successful in their future digital career and to satisfy the objectives for the Adobe Certified Expert Exams. Course Fee: \$10

506 PREMIERE PRO	GRADES: 9-12
PREREQUISITE: Introduction to Design and Digital Video	½ CREDIT

Premiere Pro is a project-based course detailing step-by-step key techniques for working in Premiere Pro. Students will learn to edit video in Adobe Premiere pro CC. Students will also learn to organize media, add audio, create transitions, produce titles, and add effects. The course is aligned to the objectives required for students to be successful in their future digital career and to satisfy the objectives for the Adobe certified Expert Exams. Counts as elective credit only. Course Fee: \$10

502 PIQUA DIGITAL WEEKLY	GRADES: 9-12
PREREQUISITE: Instructor Approval (Digital Video or Premiere Pro are recommended before taking this course)	1 CREDIT

Piqua Digital Weekly produces a weekly show for PHS that is aired on Fridays. Students are also required to aid in the broadcast of various school and community events. Students will produce, capture, and edit digital video and use broadcast equipment while creating products for The Indian Nation Station and Piqua Digital Media (Our YouTube Channel). *Counts as elective credit only*. Course Fee: \$20

509 AFTER EFFECTS	GRADES:10-12
PREREQUISITE: Intro to Video Production	1/2 CREDIT

The concepts of design, color and texture as they pertain to special effects will be explored. Students will learn how to use traditional 2D editing and imaging tools to create animation and effects. Special effects will be studied, reproduced in labs and edited by students. Course Fee: \$10

751 ART II: DRAWING/PAINTING	GRADES: 10-12
PREREQUISITE: Art I	1 CREDIT

An advanced level art course focused upon the fine art of drawing and painting. Drawing skills will be strengthened and unfamiliar techniques and color theory introduced. This class will be an opportunity for students to explore all 2D mediums, material and techniques. This class will focus on realism and drawing from observation, while improving the overall quality of the artwork. Students will also be given creative freedom, creating unique expressive projects, such as a graphic novel. They will learn how to better express their ideas and technical knowledge behind their projects both verbally and in written form. At the conclusion of this class, students will make an easy transition into Art III: Studio Art class. Course Fee: \$15 per semester

752 ART III: STUDIO ART	GRADES: 11-12
PREREQUISITE: Art I and Art II	1 CREDIT

This class will help students transition into a future AP Art student. This is the course where students will begin to build a portfolio for college. Expectations are always set high for the encouragement of outstanding quality work. Students will work with a diverse amount of art mediums available. They must meet all the deadlines and requirements given per project. Each student will strengthen his/her ability to express ideas and technical knowledge behind the projects both verbally and in written form. Studio Art students will work alongside the AP Art students as they learn how to develop a personal style with top quality design and technique. Most of the junior year artwork created in this class will become portfolio pieces added to their senior year AP Art work. Course fee: \$15 per semester

753 AP STUDIO ART: 2D DESIGN/DRAWING	GRADE: 12
PREREQUISITE: Art I and Art II/III or teacher recommendation	1 CREDIT

This is a top level art course geared towards the serious art student. Expectations are set high to ensure superior quality work. Students are required to complete various art projects in class, meet deadlines, and exceed the basic requirements given per project. Each student will continue to strengthen his/her ability to express ideas and technical knowledge behind the projects both verbally and in written form. The main goal of this course is to prepare and provide each and every student with an obtainable opportunity to go to college through the completion of their portfolio. This portfolio may be used for admission into college as well as various scholarship competitions into his/her college or art school of choice. In addition to regular class work, all AP Art students are expected to do research and develop their own projects outside the art room in the form of a "concentration". These projects will also be included within the final portfolio due at the end of his/her senior year. Any senior planning to go into art or design, whether it be digital art or fine art, should take this class, to help build their portfolio. Through AP testing, this course also provides a fantastic opportunity to receive college credit. Course Fee: \$20 per semester

755 CERAMICS INDEPENDENT STUDY	GRADES: 11-12
PREREQUISITE: Art I and Instructor Approval	1/2 CREDIT

This course will be largely an independent exploration of Ceramics. Students will complete a progressive series of projects that will promote exploration of the traditional building techniques in ceramic work. Firing, glazing, and surface decoration techniques will be taught. Students must meet deadlines to reach performance goals that will culminate in a series of finished ceramic pieces including both functional and non-functional work. Course Fee: \$20

## Family Consumer Sciences

Family and Consumer Science courses help students develop skills for life. The courses feature a hands-on approach to learning life skills in a fun and lively manner. Students enrolled in Family and Consumer Science courses also have the opportunity to participate in FCCLA (Family, Career and Community Leaders of America) which focuses on community service both in and beyond the classroom. The Family and Consumer Science program is a satellite of the Upper Valley Career Center.

553 CULINARY FUNDAMENTALS	GRADES: 9-12
PREREQUISITE: None	½ CREDIT

In this course, students will apply fundamental culinary techniques, such as knife handling skills and the recognition, selection and proper use of tools and equipment. An emphasis will be placed on mise en place, the management of time, ingredients and equipment. Students will apply standard recipe conversions using proper scaling and measurement techniques. Course Fee: \$30

554 NUTRITION AND WELLNESS	GRADES: 9-12
PREREQUISITE: None	½ CREDIT

In this course, students will use principles of nutrition to ensure a healthy body throughout the lifecycle. An emphasis will be placed on planning and preparing meals with an understanding of nutrients and their benefits, portion control and dietary needs. Additional information will include steroid and supplemental use, body weight and management and the implementation of physical activity to maintain a healthy lifestyle. Students will also receive CPR and AED training in this class. *This class counts as a Health credit*. Course Fee: \$30

552 CHILD DEVELOPMENT	GRADES: 9-12
PREREQUISITE: None	½ CREDIT

In this course, students will study the principles of child growth, development and behavior. An emphasis will be placed on the cognitive development of a child and sensory and motor skills. Additional topics will include childhood diseases, immunizations, theories of development, learning styles and evaluating childcare services. Course Fee: \$5

## Family Consumer Sciences

551 FASHION DESIGN AND CONSTRUCTION	GRADES: 9-12
PREREQUISITE: None	½ CREDIT

In this course, students will study the visual appearance of fabric and fashion design. Students will identify, analyze and apply production processes and techniques to textiles. Additional topics will include the maintenance and alterations of textiles products, including home interior accessories and garments. Course Fee: \$30

550 INTERIOR DESIGN, FURNISHINGS, & MANAGEMENT	GRADES: 9-12
PREREQUISITE: None	½ CREDIT

In this Family and Consumer Sciences career field course, students will examine design principles used in residential interiors. An emphasis will be placed on incorporating anthropometrics, ergonomics and psychological responses. Additional topics will include the selection and organization of furnishings, floors and wall coverings in living spaces, kitchens and baths. Course Fee: \$30

555 GLOBAL FOODS	GRADES: 9-12
PREREQUISITE: None	½ CREDIT

In this course, students will compare cuisines, ingredients and preferred cooking methods of various cultures. The influence of traditions and regional and cultural perspectives on food choices and culinary practices will be emphasized. Students will examine the issues and conditions that affect the availability and quality of food in the global market, and apply advanced equipment in the preparation of food dishes. Course Fee: \$30

# Health and Physical Education

850 HEALTH	GRADES: 9-10
PREREQUISITE: None	½ CREDIT

During this one semester graduation requirement course, students will: comprehend concepts related to health promotion and disease prevention; demonstrate the ability to access valid health information and health promoting products and services; demonstrate the ability to practice health enhancing behaviors and reduce health-related risks; analyze the influence of culture, media, technology, and other factors on health; demonstrate the ability to use interpersonal communication skills to enhance health; and demonstrate the ability to advocate for personal, family, and community health.

864 WELLNESS PE	GRADES: 9-12
PREREQUISITE: None	1/4 CREDIT

The mission is to empower all students to sustain regular, lifelong physical activity as a foundation for a healthy, productive and fulfilling life. The Piqua High School Physical Education program provides each student with the opportunity to participate in an all-inclusive program consisting of skill development, lead up games, team sports, individual sports, and physical fitness activities. The goal is to provide every student with a wide variety of physical activities and challenges that will contribute to the development and maintenance of their physical, cognitive, and affective well-being. Ultimately, students will be provided with a foundation to make informed decisions that will empower them to achieve and maintain a healthy lifestyle.

851 ATHLETIC TRAINING	GRADES: 10-12
PREREQUISITE: Biology and Health	½ CREDIT

This course is designed to provide students with information pertaining to careers in the Sports Medicine field as related to athletic training. This course is geared towards students who may have an interest in pursuing a career in any health-related field. Students will study anatomy, physiology, and kinesiology as related to injury prevention, evaluation, treatment, and rehabilitation. Other topics will include nutrition, therapeutic use of heat and cold, taping/bracing and other selected topics including careers in the Physical Therapy field. The class will have both a lecture and a lab component. Course Fee: \$25

#### Music

800 WOMEN'S CHORUS	GRADES: 9-12
PREREQUISITE: Audition	1 CREDIT

Open to female students to provide an initial high school choral experience. Emphasis is on vocal skill development and public performance experience. Concert attendance is mandatory. OMEA district and state contests require additional time outside of school day. Materials Needed: Correct concert attire and \$15 robe rental/cleaning fee

801 MEN'S CHORUS	GRADES: 9-12
PREREQUISITE: Audition	1 CREDIT

Open to qualified male voices to provide a choral experience for the beginning to advanced singer. Emphasis is on advanced vocal skill development and public performance. Concert attendance is mandatory. OMEA district and state contests require additional time outside of school day. Materials Needed: Correct concert attire and \$15 robe rental/cleaning fee

803 SHOW CHOIR	GRADES: 9-12
PREREQUISITE: Audition	1 CREDIT

Show Choir provides a development of vocal, instrumental, dance, and dramatic presentation skills through public performance of contemporary dramatic presentation skills through public performance of contemporary literature. Costume and accessory fees as well as a commitment to public performances and a rigorous competition schedule are mandatory for class membership. Show Choir performance season includes second and third grading periods. A student may not be a member of Winter sports from November 15 through March 15. Must attend show choir camp in the summer. Course Fee: \$15

802 CONCERT CHOIR	GRADES: 10-12
PREREQUISITE: Audition	1 CREDIT

Open to qualified students to provide an advanced mixed-choir experience. Emphasis is on advanced vocal skill development, exploration of traditional and contemporary choir literature, and public performance. Concert attendance is mandatory. OMEA district and state contests require additional time outside of the school day. Materials needed: correct concert attire and \$15 robe rental/cleaning fee

#### Music

805 JAZZ BAND/SHOW CHOIR COMBO	GRADES: 9-12
PREREQUISITE: Audition	1 CREDIT

Jazz Band provides for the development of instrumental skills through public performance of contemporary literature. Costume and accessory fees as well as a commitment to public performance schedule are mandatory for class membership. Show Choir performance season includes second and third grading periods. A student must get permission from the jazz band director to participate in a winter sport, as there will be conflicts. All wind and percussion students are REQUIRED to participate in Concert/Symphonic Band or Men/Women's Chorus. If scheduling prohibits this, students must receive permission from the jazz band director.

809 CONCERT BAND	GRADES: 9-12
PREREQUISITE: None	1 CREDIT

Concert Band is a yearlong course made up of Freshman through Seniors and is a performance-based class. This class is made up of students who are still developing ensemble skills and performance techniques. Students will be placed in Concert Band based on an individual audition at the end of each second semester. Music literature will range from a grade 2-3 difficulty level. Students will be expected to participate in Pep Band performances as part of this class. This band may participate in the OMEA Large Group Contest based on instrumentation each year.

812 SYMPHONIC BAND	GRADES: 9-12
PREREQUISITE: None	1 CREDIT

Symphonic Band is a yearlong course made up of Freshman through Seniors and is a performance-based class. This class is made up of students who are excelling on their instruments and are ready to be challenged with more advanced literature. Students will be placed in Symphonic Band based on an individual audition at the end of each second semester. Students will be expected to participate in Pep Band performances as part of this class. Music literature will range from a grade 3-4 difficulty level. This band will participate in the OMEA Large Group Contest. Students in this group will also be encouraged to participate in OMEA Solo and Ensemble Festival.

#### Music

810 MARCHING BAND EXEMPTION	GRADES: 9-12
PREREQUISITE: None	½ CREDIT

This course is designed for students attending the Upper Valley Career Center, Local College, or students not able to schedule marching band because of course conflict. All of these options must be approved by the counselor and band director. Students must meet the requirements for marching band (see marching band OR contact band director).

Fee: \$100 (covers band camp and uniform fees)

811 COLOR GUARD	GRADES: 9-12
PREREQUISITE: Audition	½ CREDIT

Color guard is an auditioned group that is part of the "Pride of Piqua" Marching Band. Color guard members will enhance the marching band through dance, saber/rifle work, and spinning of silks. Auditions for the group will be posted towards the beginning of 2nd Semester (see band director). Color Guard members will be held to the same expectations and grading policy as those signed up for Piqua's 810 Marching Band class. See details regarding marching band in course class.

807 DRAMA	GRADES: 10-12
PREREQUISITE: None	½ CREDIT

This class will serve as an introduction to all aspects of theatre. It will cover memorization skills, performance, evaluation, characterization, and history of theatre. This class will use readings, projects, movies, TV shows, and hands-on activities to survey a broad field of theatre. Class requirements include participation and performing memorized pieces on stage and reading aloud. Because of the participatory nature of this class, attendance is graded.

806 MUSIC APPRECIATION AND THEORY	GRADES: 10-12
PREREQUISITE: Instructor approval	½ CREDIT

This semester course will review various periods of music history, different styles of music, and the artists associated with these periods and style. The course is designed to give a comprehensive overview of the basics of Music Theory. Note names, staff reading and notation, scales, intervals, and triads will be covered at length in the course. The student will complete both in-class and out-of-class projects. It is suggested to have some music background and be able to read music prior to this course.

# Pre-Engineering

650 EXPLORING TECHNOLOGY	GRADE: 9
PREREQUISITE: None	½ CREDIT

Exploring Technology introduces students to a variety of engineering disciplines through classwork and various projects. This class is an extension of STEM classes at PJH. Focus includes applying the Engineering Design Process to various projects. It also includes civil engineering through tower and bridge building. Plan reading and construction scheduling are practiced. Fundamentals of electric theory and electronics are explored, as well as 3D printing and robotics. Course Fee: \$15

653 ROBOTICS	GRADE: 10
PREREQUISITE: B in Algebra and instructor approval	1 CREDIT

Students explore the digital world around us and new emerging technologies. This class covers foundational concepts of robotics and includes various quick build projects on a variety of robotic platforms. Basic programming is practiced as part of the engineering challenges. The roles of sensors, loops, and conditional statements are explored. Students will discuss the implications of increased robotics on society, focusing on changes to business and manufacturing. Students will review core theory to better understand how robots and electronics are built successfully. Students are not required to take Exploring Technology prior to enrolling in Robotics. Course Fee: \$10

654 ENGINEERING DESIGN I	GRADES: 11-12
PREREQUISITE: B in Algebra II and Instructor approval	1 CREDIT

In this course, students will focus on the Engineering Design Process to solve various design challenges. Students practice technical drawing and develop skills and experience with 2D and 3D modeling software. Course work includes preparation for the autoCAD Certified User Exam. Students will also use 3D design and printing to accomplish class objectives. Topics also include machining, design optimization, and other manufacturing work processes. Some involvement with robotics may be included depending on class interest.

# Pre-Engineering

655 ENGINEERING DESIGN II	GRADES: 11-12
PREREQUISITE: C in Engineering Design I and Instructor approval	1 CREDIT

Students continue to grow their experience using engineering principles to solve problems in this course. 2D and 3D software skills are expanded as more and more complex challenges are tackled. Practice prototyping and communicating solutions will be included in this course. Students focus on hydraulic systems and machine components interaction in manufacturing. Various disciplines of Engineering are also explored. Motivated students may have the opportunity to complete teacher-approved self-directed projects in the spring.

900A MENTORING S1	GRADES: 9-12
PREREQUISITE: Instructor approval	½ CREDIT

This course provides a unique opportunity for the learner to assume the role of a student mentor to work with same-age disabled peers. Students will gain knowledge of different handicapping conditions and will interact with the students using modified learning task materials. Students must complete assignments, be a positive role model, and accompany the class on a community outing. More importantly, this class facilitates appreciating the similarities between themselves and the disabled. Class size is limited and all students will be subject to a two-week trial period.

900B MENTORING S2	GRADES: 9-12
PREREQUISITE: Instructor approval	½ CREDIT

This course provides a unique opportunity for the learner to assume the role of a student mentor to work with same-age disabled peers. Students will gain knowledge of different handicapping conditions and will interact with the students using modified learning task materials. Students must complete assignments, be a positive role model, and accompany the class on a community outing. More importantly, this class facilitates appreciating the similarities between themselves and the disabled. Class size is limited and all students will be subject to a two-week trial period.

904 EMPLOYABILITY SKILLS	GRADES: 9-10
PREREQUISITE: Must be on an IEP	1 CREDIT

This is an elective class for students currently on an IEP. It will cover a basic course in social skills and social interaction, employability skills such as proper introductions and effective communication, and interactive role playing. The second semester of the course will get more in depth with social skills, social media safety, and dealing with emergencies. Employability skills will focus on how to get and keep a job, making change and counting money, and effective communication.

907 SUCCESSBOUND	GRADES: 9-12
PREREQUISITE: None	½ CREDIT

In this course, students will begin exploring career interests through job shadowing, guest speakers, field trips, and coursework. Students will be required to complete assignments and participate in activities, in order to develop skills necessary for post-secondary and financial success. Upon the conclusion of the course, students will be able to create a SuccessBound career path and educational plan that they will continue to develop throughout their secondary term at Piqua High School. *Students will earn their financial literacy credit in this course.* 

915 SUCCESSBOUND CAPSTONE	GRADE: 12
PREREQUISITE: Counselor Approval	1 CREDIT

SuccessBound Capstone is a course for Seniors who need to complete graduation pathways. In this course, students may work towards a qualifying score on WorkKeys testing, the Ohio Means Jobs Career Readiness Seal, complete a work study through the Work-Based Learning Program, or another pathway as agreed upon by the student and his/her counselor and the course instructor. In addition to work toward graduation pathways, students will utilize the WorkKeys career readiness curriculum to prepare for success in the workforce.

905 CONSTRUCTION TECHNOLOGY	GRADES: 10
PREREQUISITE: None	1 CREDIT

In this yearlong course, students will learn principles in safety, construction math, hand and power tool operation, blueprint reading, material handling, communication, and employability skills. Students will select materials, assemble, and test basic electrical circuits. Students will select materials and assemble simple copper and plastic plumbing applications. Students will be able to select materials in basic ductwork, components, and learn basic operation and maintenance of heating and cooling equipment.

912 MECHATRONICS I	GRADES: 11-12
PREREQUISITE: None	2 CREDITS

Mechatronics is a yearlong program that is specifically designed to teach real world skills that can be used in an ever-changing global market. Skills taught include forklift safety and operation, hand and power tool operation, electrical wiring, brazing and soldering, machine rigging, and much more. Students will have the opportunity to earn Forklift and ManLift Certifications, OSHA 10 Certification. Successful completion of this course could lead to job placement as an Industrial Maintenance Technician. Further training is available at the Upper Valley Career Center Adult Division and Edison State Community College. This class will meet for two consecutive periods per day.

913 MECHATRONICS II	GRADE: 12
PREREQUISITE: Mechatronics I	2 CREDITS

Mechatronics II is a yearlong class that will continue to develop the skills learned in Mechatronics I. Once students demonstrate a mastery in the four core areas of Safety, Quality Practices and Measurement, Manufacturing Processes and Production, and Maintenance Awareness, they may be eligible for job placement as an Industrial Maintenance Technician. Further training is available at the Upper Valley Career Center Adult Division and Edison State Community College. This class will meet for two consecutive periods per day.

813 AVIATION I	GRADES: 9-12
PREREQUISITE: None	1 CREDIT

The first year introductory course will provide the foundation for advanced exploration in the areas of flying and unmanned aircraft systems. Students will learn about engineering practices, problem solving, and the innovations and technological developments that have made today's aviation and aerospace industries possible. Students will also learn about the wide variety of exciting and rewarding careers available to them. The ninth-grade course will inspire students to consider aviation and aerospace careers while laying the foundation for continued study in the 2nd through 4th year courses.

814 AVIATION II	GRADES: 10-12
CO/PREREQUISITE: AVIATION 1 and a 'C' in ALGEBRA PREFERRED, BUT NOT REQUIRED	1 CREDIT

This course will introduce students to basic aircraft and UAS structures and their major components, principles of flight, and the fundamental physical laws affecting flight. Students will learn about basic aerodynamics and forces that act on aircraft in flight. This course will also introduce the main systems found on large and small airplanes and UAS. Unlike Aviation 1 this course is a more serious course and will start to provide the foundational information needed for passing the AOPA exams found in the 3rd year course.

815 AVIATION III	GRADES: 10-12
CO/PREREQUISITE: AVIATION II*	1 CREDIT

This course is split into two pathways. The student will choose which pathway they want to pursue. The Pilot pathway will include topics such as: pilot and aircraft qualifications, principles of flight, aerodynamics, spin awareness, flight maneuvers, pre- and post-flight procedures, airport operations, regulations, safety, weather, aircraft systems, weight and balance, human factors, cockpit management, emergency procedures, night operations, aeronautical decision-making, cross-country flight planning, airspace, and other topics that help prepare students for the Federal Aviation Administration's Private Pilot written exam. The UAS pathway is an introduction to the fundamental concepts of unmanned aircraft systems. Topics include: small unmanned aircraft systems regulations, airspace classification and operating requirements, flight restrictions affecting small unmanned aircraft operation, safety protocols, weight and balance, operating environments, aviation weather sources and effects of weather (micro-meteorology) on small unmanned aircraft performance, small unmanned aircraft loading and performance, emergency procedures, and crew resource management. Students will be prepared to complete the Federal Aviation Administration's Part 107 Remote Pilot written exam upon completion of this course.

\*With instructor approval a student may be dual-enrolled in Aviation 2 and 3.

816 AVIATION IV	GRADES: 11-12
PREREQUISITE: Aviation 3 and successful completion of the Private Pilot Knowledge Exam or Successful passage of the Remote Pilot Test	1 CREDIT

This course is split into two pathways. The student will choose which pathway they want to pursue.

#### Pilot pathway

After having prepared for the Private Pilot Knowledge Test and Part 107 Remote Pilot Test in the previous year, students will examine advanced aviation topics and aviation career options. Instrument flight, commercial aviation, and advanced aircraft systems begin the semester. Looking into the future, students then explore new horizons in the aerospace industry. What might aviation look like five, ten, or twenty years into the future? The focus then turns to business development opportunities in aviation. Finally, students learn about and conduct different types of research in preparation for their capstone project in the second semester.

#### **UAS Pathway**

Practical applications of UAS operations including agriculture, public safety, photography, ethics, preventative maintenance, commerce, environmental studies, and other contemporary uses will be explored. Students will work as individuals or in small groups to study and report on an approved aviation topic of their choosing. The goal of this capstone course is to allow students to demonstrate an understanding of a contemporary topic in aviation related to unmanned aircraft operations.

908 & 915 WORK BASED LEARNING	GRADES: 11-12
PREREQUISITE: Staff Recommendation and Application	1 CREDIT*

Work-based learning experiences are conducted at a work site during or after school. They are designed to provide authentic learning experiences to students that link academic, technical and professional skills. Business and education partners work together to evaluate and supervise the experience, which must be documented with training or learning plans and evaluation forms. WBL is for students in the 11th & 12th grade and are interested in gaining employment during high school. Enrolled students will attend school periods 1-5A. Students will also be required to work a minimum of 15 hours per week and must have reliable transportation to their work site. Students are encouraged to obtain employment prior to program entrance. Students under the age of 18 will be required to obtain a work permit once employed. Students benefit by being on the job daily and developing good work habits. There will be a related course that accompanies this class. \*Half credit is given per five hours of work a week for each semester.

457 INTRODUCTION TO HUMAN BODY SYSTEMS	GRADES: 9-12
PREREQUISITE: None	½ CREDIT

Students examine the interactions of human body systems at a pre-anatomy and physiology level as they explore identity, power, movement, protection, and homeostasis in the body. Exploring science in action, students build organs and tissues on a skeletal Manikin; use data acquisition software to monitor body functions such as muscle movement, reflex and voluntary action, and respiration; and take on the roles of biomedical professionals to solve real-world medical cases. *This class will count for elective credit only* 

914 INTRODUCTION TO HEALTHCARE	GRADES: 10-11
PREREQUISITE: None	1 CREDIT

This first course in the career field provides students an overview of the opportunities available in the healthcare industry. Students will learn fundamental skills in effective and safe patient care that can be applied across a person's lifespan. They will also be introduced to exercise science and sports medicine, the field of biomedical research and the importance of managing health information. *This class will count for elective credit only.* 

458 MEDICAL TERMINOLOGY	GRADES: 11-12
PREREQUISITE: None	1 CREDIT

This course focuses on the applications of the rules for constructing and defining medical terms with an emphasis on building a working medical vocabulary. Topics include using appropriate abbreviations and symbols for anatomical, physiological and pathological classifications and the associated medical specialties and procedures. Students will decipher medical terms by identifying and using word elements with an emphasis on derivation, meaning, and pronunciation. Further, students will interpret and translate medical records and documents. This class will count for elective credit only.

911 HEALTH CAREERS LAB	GRADES: 11-12
PRE/COREQUISITE: Medical Terminology AND Anatomy and Physiology	2 CREDITS

Students will apply psychomotor nursing skills needed to assist individuals in meeting basic human needs. Students will implement interventions following a nursing assistant plan of care. Students will collect the patient's vital signs including temperature, pulse rate, respiration rate, and blood pressure. Students will perform a phlebotomy procedure with emphasis on infection prevention, universal precautions, proper patient identification, specimen acquisition, handling, and processing. Additionally, students will observe patients' physical, mental, and emotional conditions and document any change. Students will apply fundamental principles of communication, leadership, technology and management as it applies to the medical office setting. Students will demonstrate documentation and record keeping procedures set forth by national accrediting organizations. Students will receive their Patient Care Technician (PCT) certification. During senior year, students will have the option to do an internship, take Edison classes for a registered nursing degree, or go to the career center for LPN. Students may be eligible for employment after certification within the school year. Students will meet with their counselor to plan their course of action.

916 LAW ENFORCEMENT PRE-APPRENTICESHIP	GRADES: 11-12
PREREQUISITE: pass 9TH & 10TH grade classes, application and interview	1 CREDIT

PHS will be offering a pre-apprenticeship opportunity in conjunction with the Piqua Police Department. This pre-apprenticeship program will run concurrent with the Edison State Community College Police Training Program.

919 BUILDING AND GROUNDS PRE-APPRENTICESHIP	GRADES: 11-12
PREREQUISITE: pass 9TH & 10TH grade classes	2 CREDITS

Students in this program will learn the basic skills needed for building and grounds maintenance. Skills include building operations, mechanical operations, daily maintenance, safety equipment use and minor repairs. Students are required to work with the maintenance staff for a minimum of 2 periods per day. Students entering this program may be eligible to enter an apprenticeship program at Piqua City Schools. Students must also take Work Keys in conjunction with this program.

721 AMERICAN SIGN LANGUAGE	GRADES: 9-12
PREREQUISITE: None	1 CREDIT

This course will introduce students to the language and culture of Deaf Americans. Students will learn basic vocabulary and grammar structures with a heavy emphasis on expressive and receptive language use. Information about Deaf Culture and Community will be introduced through authentic and non-authentic materials. By the end of ASL I students will have the ability to converse in basic ASL, have basic narrative and questioning skills, use tense and aspect markers, and be able to identify and understand the use of classifiers/depicting verbs.

722 AMERICAN SIGN LANGUAGE II	GRADES: 10-12
PREREQUISITE: ASL I	1 CREDIT

This course will continue to develop vocabulary and grammar with a heavy emphasis on expressive and receptive language use. Knowledge of the American Deaf Culture and Community will be expanded through authentic and non-authentic materials. By the end of ASL II students will have refined their grammatical skills and be able to incorporate classifiers and depicting verbs into their discourse. Spatial referencing, parts of speech, directionality, temporal, and distributional aspects will be introduced.

723 AMERICAN SIGN LANGUAGE III	GRADES: 11-12
PREREQUISITE: ASL II	1 CREDIT

This course is designed for students who are serious about advancing their mastery of receptive and expressive ASL. This course will continue to develop vocabulary and dive deeper into the structures of grammar. Conversation skills will be heavily increased as the expectation of voice-off communication is imperative for this course. By the end of ASL III students will be able to communicate using a multitude of grammatical structures, tenses, and incorporation of different aspects.

711 FRENCH I	GRADES: 9-12
PREREQUISITE: None	1 CREDIT

Students in French will be able to speak, listen, read, and write about topics that are relevant to them. This will be done while discovering ways to interact with others, whose perspectives may be different from their own by exploring the lives of people throughout the French speaking world. As students continue their study of French, they will expand their skills in speaking, listening, reading, writing and cultural awareness. Students will learn to talk about themselves-their identity, their likes and dislikes, what they do for fun, what they do at school and the people in their lives-their friends and family.

712 FRENCH II	GRADES: 10-12
PREREQUISITE: French I	1 CREDIT

In French II, students will learn to talk about what they eat, what they do with their free time, and what influences their decisions for free time. They will be able to talk about where they live and what they do at different places in the city.

713 FRENCH III	GRADES: 11-12
PREREQUISITE: French II	1 CREDIT

In French III students will learn to talk about what they are going to do in their future, how education influences their future, what food choices they make, what responsibilities they have as a global citizen, and what they did and where they went.

714 FRENCH IV	GRADES: 12
PREREQUISITE: French III	1 CREDIT

In French IV, students will be able to discuss what a healthy lifestyle looks like, how to give advice for living a healthy lifestyle, traveling abroad, doing volunteer work while traveling, and understand the difference between being a traveler and not a tourist.

731 SPANISH I	GRADES: 9-12
PREREQUISITE: None	1 CREDIT

This course will introduce the student to the fundamentals of Spanish vocabulary and grammar. Students will develop all four essential skills of learning a World Language such as reading, writing, listening and speaking. Some cultural and geographical information will be covered as well. By the end of Spanish I, students will have the ability to use the present tense. They will be able to initiate basic conversations with Native Spanish speakers using basic vocabulary and common greetings and expressions.

732 SPANISH II	GRADES: 10-12
PREREQUISITE: Spanish I	1 CREDIT

This course will continue to build vocabulary and continue to develop grammar using the four essential skills of learning a World Language: reading, writing, listening, and speaking. Cultural and geographical knowledge will be expanded through various authentic and non-authentic materials. By the end of Spanish II, students will be able to use multiple tenses to speak, listen, read and write including the present and past, as well as uses of pronouns. Assessments will be based on Integrated Performance Assessments (IPA's) and be completely performance based.

733 SPANISH III	GRADES: 11-12
PREREQUISITE: Spanish II	1 CREDIT

This course will include a continuation of the study of vocabulary and grammar using all four essential skills of learning a World Language: reading, writing, listening and speaking. Conversation skills will be further developed through practical thematic units. Difficulty and relevance of vocabulary will also increase. By the end of Spanish III, students will be able to use multiple tenses to communicate including the present, past, imperfect, future, command subjunctive, and conditional tenses. Assessments will be based on Integrated Performance Assessments (IPA's) and be completely performance based.

735 SPANISH IV	GRADE: 12
PREREQUISITE: Spanish III	1 CREDIT

Spanish 4 is for students who wish to develop proficiency and integrate their language skills, using authentic materials and sources. Students will further develop their Spanish skills in reading, writing, speaking and listening. The course will include an intensive overall review of grammar, with a substantial increase in vocabulary as it relates to the reading and conversation topics of the text. Spanish "humanities" will be studied – art, architecture, music and literary greats, as well as current events and social issues.