

Piqua High School Program of Studies 2017-18

#WeArePiqua



Where Opportunity Matters!

4 GRADES AND CREDITS

Junior High Credit, Course Retake Option, Grading System, Grade Point Average, Home Schooled Students, Valedictorian and Salutatorian, Add-On Points, Scheduling

6 EDUCATIONAL OPTIONS

Success Academy, Summer School, Flex Credit, Physical Education Waiver, Upper Valley Career Center, Special Education, ESL, Intervention, Advanced Placement Courses, College Credit Plus, Discrimination Policy

9 ATHLETICS AND ACTIVITIES

Extracurricular Eligibility, Athletics, Extracurricular Activities

11 GRADUATION REQUIREMENTS

PHS Graduation Requirements, End of Course Exams, UVCC Graduation Requirements, PHS and UVCC Honors Diploma

13 COLLEGE PREPARATION

College Bound Students, How Colleges Select Students, College Athletes

15 CAREER EXPLORATION

Naviance, College and Career Week, College Fair, College Visits, Job Shadowing, Career Clusters

16 CAREER CLUSTERS

Agricultural and Environmental, Arts and Communication, Business and Administrative, Construction, Education, Engineering and Science, Menlo Park: Engineering, Finance, Government and Public Administration, Health Science, Menlo Park: Health Sciences, Hospitality and Tourism, Human Services, Information Technology, Menlo Park: Information Technology, Law and Public Safety, Manufacturing, Marketing, Transportation

36 FOUR-YEAR SCHEDULE

Planning Sheet

38 COURSE DESCRIPTIONS

38 English	59 Family and Consumer Sciences
43 Math	61 Health And Physical Education
47 Science	62 Music
51 Social Studies	65 Pre-Engineering
54 Art	67 Technical
56 Business	69 World Languages

Table of Contents

Grades and Credits

JUNIOR HIGH CREDIT

Junior high school students successfully completing high school courses offered as part of the junior high curriculum (ex.: Algebra I, Geometry, Physical Science) will earn high school credit, but the grade will not be included into the high school GPA. One credit of math will be accepted from the junior high. Additional math credit will count as an elective credit.

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 grade of W/F will have an impact on 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

For the class of 2018, selections are based on GPA and add on points figured through seven semesters.

For the class of 2019 and beyond, selections are based on GPA, course selection, and ACT/SAT scores through seven semesters. To be eligible, students must qualify for an Honor's Diploma. Next the 4.0 GPA will be multiplied by 9. The GPA and ACT will then be added together. The top point earner will be the valedictorian. The second point earner will be the salutatorian.

ADD-ON POINTS

Advanced Placement and College Credit Plus courses are offered to encourage students to enroll in more challenging classes for personal benefit. Add-On Points are for the Class of 2018. The add-on point factor of A = .06, B = .04, and C = .02 will be applied to the GPA each semester. The following courses on the PHS campus are awarded add-on points: AP English Literature & Composition, AP English Language & Composition, AP Statistics, AP Chemistry, ECC Organic Chemistry, AP Environmental Science, AP Physics I, AP Physics C, AP Biology, AP Government and Politics, AP World History, AP Spanish Language, AP German Language, AP French Language, AP Studio Art: 2 D Design/Drawing, ECC Human Biology, ECC US History, WSU Pre-Calculus, WSU Calculus, ECC Anatomy and Physiology, ECC Medical Terminology, ECC Introduction to Health Care, ECC Microsoft Word, ECC Microsoft Excel, ECC Introduction to Business, AP Computer Science Principles, CSU Computer Science Principles, and ECC Personal Finance. College Credit Plus classes will be given add-on points if they are the equivalent to the AP or CCP classes listed above. Equivalency is based on how the university awards college credit for AP. PHS transcripts will reflect the 4.0 scale as well as the add-on GPA. The same format will be followed in releasing information for scholarships.

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, W/F will be added to the final grade which impacts eligibility and GPA. Level changes within the same subject will be handled on an individual basis.

Educational Options

SUCCESS ACADEMY

Success Academy 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.

SUMMER SCHOOL

Piqua High School offers selected summer school classes to students in grades 9 - 12 through the online Success Academy. Classes will meet Monday through Friday for three weeks in June. Applications can be obtained in the spring. Students must pay to take summer school courses.

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, 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 Upper Valley CC. Applications are available online on the Upper Valley Career Center website and are accepted until the 10th 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.

ESL

The ESL Program is available to students whose first language is not English. It is designed to help 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. ESL students may also be entitled to curriculum and assessment modifications in their core classes based on their language level.

INTERVENTION

Piqua High School offers small group intervention to students in need of passing End of Course Exams. Sessions are offered prior to retesting.

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 and March with their parents. The student/parent must provide the Piqua City Board of Education with a non-binding notification by April 1 of the student's intent to participate in the program during the following school year. Students must complete the college application and submit an official transcript to the university.

Wright State University: Satisfaction of the Ohio remediation free standards, recommendation of the high school principal/counselor, college-level placement scores as established by the University, and satisfaction of all prerequisites for any selected course(s). To take WSU Pre-Calculus or Calculus Math: 22 on the ACT, 550 on the SAT, or a score of 46 or better on the on the Wright State ALEKS mathematics examination. English: 18 on the ACT, 490 on the SAT Reading and Writing examinations, or a score of 84 or above on the Wright State writing placement examination

Edison Community College: Any high school student with a qualifying ACT or Accuplacer score. ACT: 18 in English 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.

Cleveland State University: Students must have a 2.3 GPA and qualifying ACT score. ACT requirements include composite: 16, math: 22, and English: 20. Test scores must be sent electronically.

Educational Options

College Credit Plus Course Offerings at PHS

Math	<p><u>WSU Pre-Calculus</u> 4 credits MATH 1280 College Algebra 3 credits MATH 1350 Analytical Geometry and Trigonometry</p> <p><u>WSU Calculus</u> 4 credits MATH 2300 Calculus I 4 credits MATH 2310 Calculus II</p>
Science	<p><u>ECC Human Biology</u> 4 credits BIO 124S Human Biology</p> <p><u>ECC Anatomy and Physiology</u> 4 credits BIO 125S Anatomy and Physiology I 4 credits BIO 126S Anatomy and Physiology II</p>
Social Sciences	<p><u>ECC US History</u> 3 credits HST 121S History of the United States I 3 credits HST 122S History of the United States II</p>
Electives	<p><u>ECC Medical Terminology</u> 3 credits OSA 151S Medical Terminology</p> <p><u>ECC Introduction to Health Care</u> 1 credit ALH 101S Introduction to Health Care</p> <p><u>ECC Microsoft Word</u> 1 credit CIT 101S Intro to Word Processing</p> <p><u>ECC Microsoft Excel</u> 1 credit CIT 102S Intro to Spreadsheets</p> <p><u>ECC Introduction to Business</u> 3 credits BUS 110S Intro to Business</p> <p><u>ECC Personal Finance</u> 3 credits BUS 116S Personal Finance</p> <p><u>CSU Computer Science Principles</u> 3 credits CIS 151 Invitation to Computing</p>

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.

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. The W/F 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.

ATHLETICS

Piqua High School is a member of the Greater Western Ohio Conference (GWOC), participating in sports opposite Beavercreek, Butler, Centerville, Fairborn Fairmont, Greenville, Lebanon, Miamisburg, Northmont, Sidney, Springboro, Springfield, Stebbins, Tipp City, Trotwood-Madison, Troy, Wayne, West Carrollton, and Xenia.

Boys Sports

Football
Basketball
Baseball
Cross country
Tennis
Track
Soccer
Wrestling
Golf
Swimming
Bowling

Girls' Sports

Volleyball
Basketball
Softball
Cross country
Tennis
Track
Soccer
Golf
Swimming
Cheerleading
Bowling

EXTRACURRICULAR ACTIVITIES

The following extracurricular activities are available to Piqua High School Students

National Honor Society: a group of juniors and seniors having a GPA of 3.6 or higher. The purpose is to uphold the standards of scholarship, leadership, character, and service.

Student Council: 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 in Student Council.

Key Club: an international student led organization which provides its members with opportunities to provide service, build character, and develop leadership.

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

Color Guard: an auxiliary unit mainly concerned with the visual aspect of marching band through the use of flags and movement.

Musical: 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 January, February, and March.

Athletics and Extracurricular Activities

Muse Machine: promotes the arts in all its forms by bringing artists for in-school performances and providing field trips to members for other events.

Academic Challenge: a group which competes in quiz bowl type competitions. This is a winter GWOC sport.

Spanish Club: 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 in an informal setting.

Art Club: 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.

Family, Career and Community Leaders of America (FCCLA): 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.

Science Olympiad: an academic competition team that competes in events consisting of building, identifying, modeling, and studying different scientific phenomenon.

FOR Club: FOR (Friends of Rachel) Club is a student led club designed to promote kindness. Students are involved in a variety of activities centered on creating a positive environment within the school and the community. In this club, members create, design, and implement projects to help enrich the lives of others.

PIQUA HIGH SCHOOL GRADUATION REQUIREMENTS

Piqua High School students are required to earn 21 credits, meet end of course exam requirements, and complete 6 hours of senior service hours to meet graduation requirements.

- 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 and .5 Government
- Physical Education: .5 credit--2 semesters
- 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, Introduction to Business, ECC Introduction to Business, Personal Finance, ECC Personal Finance, and CBI.

END OF COURSE EXAMS

Must meet one of three testing options.

Ohio's state tests

Students will take 7 end of course exams in English 9, English 10, Algebra, Geometry, Physical Science (2018)/Biology (2019 and beyond), US History, and Government. Each test is worth a maximum of 5 points. If the student earns 18 points with minimum scores of 4 points in English, 4 points in math, and 6 points in Social Studies and Science, the testing requirements for graduation are met. Students taking Advanced Placement courses in Biology, American history, or American government may substitute AP scores for end of course state exams to avoid double testing. Students taking College Credit Plus courses in Biology, American history, or American government may substitute grades for end of course state exams.

College and career readiness tests

Students may take a college admissions test to meet graduation testing requirements. Students must earn "remediation-free" scores in English language arts and mathematics on a nationally recognized college admission exam. The ACT remediation free scores are English 18, Reading 21, and Math 22. The SAT remediation free scores are English 430, Reading 450, and Math 520. The state of Ohio will pay one time for all 11th grades students to take the exam free of charge. The school district selects the test each year.

Industry credential and workforce readiness

The Industry credential and workforce readiness option means that students must earn 12 points through a State Board of Education-approved, industry-recognized credential or group of credentials in a single career field and achieve a workforce readiness score on the WorkKeys assessment. The WorkKeys assessment has three sections: reading, applied mathematics and locating information. Students in the Classes of 2018 and 2019 must earn a total of 13 points across the three WorkKeys sections; students in the Class of 2020 and beyond must earn a total of 14 points. Students must also earn at least three points on each section of the test. The state of Ohio will pay one time for those who take the WorkKeys assessment.

Graduation Requirements

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.
- Science: 3 credits including 1 Physical, 1 Life, and 1 Advanced
- Social Studies: 3 credits including .5 American History and .5 Government
- Physical Education: .5 credit--2 semesters
- Health: .5 credit
- Electives: 6 credits
- Financial Literacy: Students will meet this requirement by completing Integrated SS at Upper Valley CC.

PIQUA HIGH SCHOOL 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 physics and chemistry
- Social Studies: 4 credits
- World Language: 3 credits in one language or 2 credits each in two languages
- Fine Arts: 1 credit (grades 9-12)
- GPA: 3.5/4.0
- ACT: 27 or SAT: 1210

UPPER VALLEY CC 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, or equivalent and another higher level course or a four-year sequence of courses that contain equivalent content.
- Science: 4 credits including two units of advanced science
- Social Studies: 4 credits
- Lab: 4 credits in career-technical education curriculum. Program must lead to an industry recognized credential, apprenticeship, or be part of an articulated career pathway which can lead to post-secondary credit.
- Ohio Career-Technical Competency Assessment: proficiency mark
- GPA: 3.5/4.0
- ACT: 27 or SAT: 1210

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 social studies
- 3 credits of science
- 2 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.

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 course work 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 the personal interview (if required).

College Preparation

COLLEGE ATHLETES

Students planning to participate in intercollegiate athletics may need to go through an eligibility center. If you are playing NAIA, you must register at www.playnaia.org/. You must meet two of the three criteria: GPA (2.0/4.0), class rank (top 50%), and ACT (18) or SAT (940). If you are playing at a Division I or II institution, you must register at www.eligibilitycenter.org. 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. Student 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 to the NAIA or NCAA.

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, nondoctrinal religion, or philosophy). 10 core courses must be completed prior to the 7th semester of high school (January of your senior year). These course are locked in and cannot be retaken for improved credit.
- Division I: Uses a sliding scale to match test scores and grade point average to determine athletic eligibility. Grade point average is based on core courses.
- Division II: Earn a 2.000 grade-point average or better in your core courses and earn a combined SAT score of 820 or an ACT sum score of 68. There is no sliding scale in Division II.

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.

COLLEGE AND CAREER WEEK

Piqua High School offers a college and career week for all grade levels. Freshmen are able to visit business people from a range of career clusters. Sophomores take their 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 to 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 Engineers*
- *Agricultural inspector*
- *Agricultural Scientist*
- *Animal Breeders*
- *Animal Scientists*
- *Animal Trainers*
- *Commercial Fishers*
- *Conservation Scientists*
- *Farm and Rank Workers*
- *Farm Equipment Mechanics*
- *Fish and Game Wardens*
- *Food Processing Workers*
- *Foresters*
- *Loggers*
- *Meat Cutters*
- *Nursery Workers*
- *Park Naturalists*
- *Recycling Workers*
- *Rock Splitters*
- *Trash Collectors*
- *Veterinarians*
- *Veterinary Assistants*
- *Water Treatment Plant Operators*
- *Zoologists*

Agricultural and Environmental Systems

Do you enjoy working with animals?

Do you have a green thumb?

Do you collect rocks?

Are you interested in protecting the environment?

Do you enjoy working outdoors?

Are science classes your favorite?

If you answered yes to two or more of the questions above, you might be interested in considering a career in agriculture, food, and natural resources.

If you chose to work in occupations in the Agriculture, Food, and Natural Resources cluster, you could raise plants and animals as sources for food and shelter. On the other hand, you could focus on selling and making products from plants and animals. These products include food, lumber, and fabrics. You might also provide advice and services that farmers and ranchers need to improve products. Another option in this cluster is to work to conserve natural resources and protect the environment.

Helpful Piqua High School Electives

AP Biology

AP Chemistry

Higher Level Math Classes

Organic Chemistry

Microsoft Word

Microsoft Excel

Small Business Ownership

AP Environmental Science

Upper Valley Career Center Offerings

Ag and Power Technologies

Environmental Occupations

Horticulture and Landscape Management

Veterinary Science

Edison Community College Offerings

Geology/Earth Science A.S.

Arts and Communication

*Do you like to perform in front of an audience?
Are you interested in working in the movies or television?
Do you like to work with technology?
Is artistic expression important to you?
Are you active with the school or community theatre?
Does computer animation interest you?
Are you visually oriented?*

If you answered yes, you might be interested in considering a career in arts, audio/video technology, and communications. If you are interested in working in this cluster, you have two avenues. One is to be the performer or artist. The other is to work behind the scenes to make the performance or publication happen. As a reporter, actor, or fine artist, you would use your creative talents. To assure that a concert or magazine is successful, you would use computers and sound equipment. The occupations in this cluster allow you to use your creativity, talent, and technical skills.

Helpful High School Electives

Women's, Men's, Concert, & Show Choir
Show Choir Combo, Marching Band & Symphonic Band
Music Appreciation
Intro to Music Theory
Art I: Introduction to Art
Art II: Drawing and Painting
Art III: Studio Art
AP Studio Art: 2 D Design and Drawing
Photography, Ceramics
Speech
Media I & II
World Languages
Yearbook
Newspaper
Drama
Microsoft Word and Excel
History of Rock and Roll
Sports Entertainment Marketing
Digital Media Marketing
Advanced Media Production
Textile Design Construction and Maintenance

Upper Valley Career Center

Design and Digital Print Technologies

Edison Community College Offerings

Fine Arts, AA
Photography Fast Track
English, AA
Communication, AA
Telecommunications AA

Occupations

- *Actor*
- *Agent & Business Manager*
- *Animator*
- *Announcer*
- *Art Director*
- *Broadcast Technician*
- *Camera Operator*
- *Cartoonist*
- *Choreographer*
- *Costume and Wardrobe Specialist*
- *Curator*
- *Dancer*
- *Editor*
- *Fashion Designer*
- *Film and Video Editor*
- *Fine Artist*
- *Graphic Designer*
- *Music Composers, Directors, and Arrangers*
- *Musicians*
- *News Reporters*
- *Photographers*
- *Printing Press Operator*
- *Producer and Director*
- *Proofreaders*
- *Set Designer*
- *Singer*
- *Technical Writer*
- *Video Game Designer*
- *Writer*

Occupations

- *Administrative Services Managers*
- *Advertising Managers*
- *Billing Clerks*
- *Bookkeeping and Accounting Clerks*
- *Business Executives*
- *Computer Operators*
- *Court Reporters*
- *Data Entry Keyers*
- *Employment Interviewer*
- *Employment Recruiter*
- *Executive Secretary*
- *File Clerks*
- *Human Resources Manager*
- *Mail Clerks*
- *Office Manager*
- *Payroll and Timekeeping Clerks*
- *Property and Real Estate Manager*
- *Receptionist*
- *Secretaries*
- *Statisticians*

Business and Administrative Services

*Do you enjoy working with other people?
Are you good at working with numbers?
Do you like to plan and organize activities?
Have you started your own business?
Do you keep your checkbook balanced?
Are you an officer of an organization?*

If you answered yes to two or more of the questions above, you might be interested in a career in business management and administration.

If you are interested in the Business Management and Administration cluster, there are many career options. You may provide the needed support to keep a business in operation. Or you might keep track of the expenses and income. You could 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. Or after years of education or experience, you might direct the operations of a business.

Helpful High School Electives

Microsoft Excel
Microsoft Word
Personal Finance
Introduction to Business
Introduction to Marketing
Sports/Entertainment Marketing
Speech
Finance and Banking
AP Calculus
AP Statistics
Digital Media Marketing
Advanced Media Production

Edison Community College Offerings

Business Management, AAB, certificate, and fast track
Business Management, General Business Studies Option, AAB
Business Management, Human Resources Management Option, AAB, certificate, and fast track
Business Management, Marketing Option, AAB and certificate
Business Management Entrepreneurship AAB, Certificate
Real Estate Certificate and fast track
Office Systems and Administration, Administrative Assistant Option AAB or certificate
Office Systems and Administration, Medical Office Support Option, AAB
Medical Coder, Certificate
Medical Office Support, Certificate

Construction Technologies

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.

If you work in occupations in the Architecture and Construction cluster, you would be responsible for buildings and other structures such as highways and bridges. You might make designs and plans for new structures. Or, you would use the plans to build new structures and manage construction workers. Another option would be to take care of, repair, and restore existing structures.

Helpful Piqua High School Electives

Exploring Technology

Engineering Design

Construction Technology

Textiles and Interior Design

Upper Valley Career Center Offerings

Carpentry

Electrical Trades

HVAC/R

Edison Community College Offerings

Equipment Maintenance Technology, AAS

HVAC/R, certificate

Occupations

- *Architect*
- *Cabinetmaker*
- *Carpenter*
- *Cement Mason*
- *Construction Manager*
- *Drafters*
- *Drywall Installers*
- *Electrician*
- *Floor and Carpet Installer*
- *General Construction Worker*
- *Heating and Cooling System Mechanics*
- *Highway Maintenance Worker*
- *Interior Designer*
- *Janitor*
- *Landscape Architect*
- *Painter*
- *Plumber*
- *Roofer*
- *Sheet Metal Worker*
- *Surveyor*

Education and Training

Occupations

- *Adult and Vocational Education Teachers*
- *Coaches and Scouts*
- *College and University Administrators*
- *Elementary School Teachers*
- *Fitness Trainers and Aerobics Instructors*
- *High School Teachers*
- *Librarians*
- *Middle School Teacher*
- *Preschool and Kindergarten Teacher*
- *Special Education Teacher*
- *Speech Pathologies and Audiologist*
- *Teacher Aides*
- *University and College Teacher*

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?

Do you enjoy teaching games to children?

Are you outgoing?

Do you like being in school?

If you answered yes to two or more of the questions above, you might be interested in considering a career in education and training.

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 classroom teacher as a counselor, librarian, or principal. If you are 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.

Helpful Piqua High School Electives

Speech

Psychology

Microsoft Word and Excel

Child Development

Mentoring

Minority Studies

Sociology

AP Physics

AP Biology

AP Chemistry

The Novel

Upper Valley Career Center Programs

Early Childhood Education

Teacher Academy

Edison Community College Offerings

Early Childhood Education, AAS

Child Development Associate Credential, fast track

Education, AA

Education, AS

Engineering and Science Technologies

*Is science one of your favorite subjects?
Do you prepare projects for science fairs?
Do you enjoy reading science magazines?
Are you detail-oriented?
Do you want to know how things work?*

If you answered yes to two or more of the questions above, you might be interested in considering a career in science, technology, engineering, or mathematics.

If you choose to work in the Science, Technology, Engineering, and Mathematics cluster, you have several avenues. One avenue is to do scientific research in laboratories or the field. Another option is to be involved in the planning and design of products and systems. The last avenue is to provide support to the scientists, mathematicians, and engineers so they can do their work.

Helpful High School Electives

ECC Human Biology
ECC Anatomy and Physiology
AP Biology
AP Chemistry
Organic Chemistry
AP Physics
Robotics CIM
Astronomy
Microsoft Word and Excel
Sociology
WSU Calculus
AP Statistics
Engineering Design
AP/CSU Computer Science Principles
AP Environmental Science

Upper Valley Career Center Offerings

Pre-Engineering and Design Technologies

Edison Community College Offerings

Mechanical Engineering Technology, AAS
Advanced Manufacturing, certificate and fast track
CAD, certificate and fast track
CNC Programming, fast track
Electronics Engineering Technology, AAS
Automation and Robotics, certificate
Electro-Mechanical Certificate
Electronics Networking, certificate and fast track
Renewable Energy Technology, certificate
Basic Electricity, fast track
Factory Automation, Fast track
Industrial Electrical Controls, fast track
Print Reading and Controls, fast track
Biology, AS

Occupations

- *Aerospace Engineers*
- *Anthropologists*
- *Archeologists*
- *Astronauts*
- *Bioengineers*
- *Biologists*
- *Biomedical Engineers*
- *Cartographers*
- *Chemists*
- *Civil Engineers*
- *Electrical and Electronics Engineers*
- *Energy Engineers*
- *Engineering Technicians*
- *Environmental Engineers*
- *Environmental Scientists*
- *Geographers*
- *Geologists and Geophysicists*
- *Historians*
- *Industrial Engineers*
- *Manufacturing Engineers*
- *Marine Biologist*
- *Mathematicians*
- *Mechanical Engineers*
- *Meteorologists*
- *Nuclear Engineers*
- *Physicist*
- *Political Scientists*
- *Science Technicians*
- *Sociologists*

Menlo Park: Engineering

I want to be a [Mechanical Engineer](#)

Piqua HS
 4 years CP English/AP English
 WSU Pre-Calculus
 AP Statistics
 WSU Calculus
 Microsoft Word and Excel
 Physics
 AP Physics
 Engineering Design
 Economics
 AP Macroeconomics
 Exploring Technology
 Chemistry/Pre AP Chemistry
 AP Chemistry
 AP/CSU Computer Science
 Principles
 Robotics CIM

Upper Valley Career Center
 Pre-Engineering

2-Year College
 Mechanical Engineering
 Technology

4-Year University
 Mechanical Engineering

Graduate School
 Mechanical Engineering

Ohio Job Outlook
 Growth Rate:
 MET (2-yr): 2.4%
 ME (4-yr): 5.4%

Annual Openings:
 MET (2-yr): 255
 ME (4-yr): 477

Median Ohio Salary
 MET (2-yr): \$58,000
 ME (4-yr): \$71,000

I want to be an [Electronics or Electrical Engineer](#)

Piqua HS
 4 years CP English/AP English
 WSU Pre-Calculus
 AP Statistics
 Exploring Technology
 Microsoft Word and Excel
 ONU Sociology
 Chemistry/Pre AP Chemistry
 AP Chemistry
 Physics
 AP Physics
 Economics
 AP Macroeconomics
 WSU Calculus
 AP/CSU Computer Science
 Principles
 Engineering Design
 Robotics CIM

Upper Valley Career Center
 Pre-Engineering

2-Year College
 Electronics Engineering
 Technology

4-Year University
 Electrical Engineering

Graduate School
 Electrical Engineering

Ohio Job Outlook
 Growth Rate:
 EET (2-yr): 1.5%
 EE (4-yr): 4.5%

Annual Openings:
 EET (2-yr): 70
 EE (4-yr): 282

Median Ohio Salary
 EET (2-yr): \$56,500
 EE (4-yr): \$77,000

I want to work as a [Machinist or Manufacturing Engineer](#)

Piqua HS
 4 years CP English/AP English
 Microsoft Word and Excel
 Exploring Technology
 Psychology
 AP Statistics
 Sociology
 Chemistry/Pre AP Chemistry
 AP Chemistry
 Physics
 AP Physics
 WSU Calculus
 Engineering Design
 AP/CSU Computer Science
 Principles
 Research and Development
 Robotics CIM

Upper Valley Career Center
 Manufacturing and Machine
 Technologies
 Welding

UV Career Center Adult
 Precision Tooling and
 Manufacturing

2-Year College
 MET, Advanced Manufacturing
 Systems Option

4-Year University
 Manufacturing Engineering

Graduate School
 Industrial Engineering

Ohio Job Outlook
 Growth Rate:
 Machinist: 7.4%
 MET (2-yr): 1.5%
 ME (4-yr): 2.7

Annual Openings:
 Machinist: 685
 MET (2yr): 70
 ME (4-yr): 146

Median Ohio Salary
 Machinist: \$37,800
 MET (2 yr): \$56,500
 ME (4-yr): 85,500

Occupations

- *Accountants and Auditors*
- *Actuaries*
- *Appraisers*
- *Bank Tellers*
- *Bill Collectors*
- *Brokerage Clerks*
- *Budget Analysts*
- *Credit Analysts*
- *Credit Checkers*
- *Economists*
- *Financial Analysts*
- *Financial Examiners*
- *Insurance Adjusters*
- *Insurance Agents*
- *Insurance Underwriters*
- *Loan Clerks*
- *Loan Officers*
- *Securities Salespeople*
- *Tax Preparers*
- *Title Examiners*

Finance

Are you the treasurer of a club or organization?

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?

If you answered yes to two or more of the questions above, you might be interested in considering a career in finance. In the occupations in the Finance cluster, you would keep track of money. You might provide financial services to a business or individual. Your work could include maintaining records or giving advice to business executives on how to operate their business. You could work in financial planning, banking, or insurance.

Helpful High School Electives

Microsoft Word and Excel

Personal Finance

Introduction to Business

Sports/Entertainment Marketing

Speech

Finance and Banking

Economics

WSU Calculus

AP Statistics

Edison Community College Offerings

Accounting, AAB and certificate

Accounting Clerk, fast track

Tax Consultant, fast track

Economics, AS

Mathematics, AS

Government and Public Administration

Have you served as an officer of a club or organization?

Do you like to plan and organize activities?

Are you interested in politics?

Would you like to work in another country?

Are rules and laws important to you?

If you answered yes to two or more of the questions above, you might be interested in considering a career in government and public administration.

Through the national, state, and local governments, the public can express its will and make our way of life possible. Through government, individuals can act together to accomplish what cannot be done alone. Most of these actions are carried out only by the 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 those occupations that are unique.

Helpful High School Electives

Introduction to Business

AP Government

Microsoft Word and Excel

Economics

World Language

Minority Studies

Psychology

Sociology

AP World Studies

AP Statistics

ECC US History

Current Events

Occupations

- *Compliance Officers and Inspectors*
- *Construction and Building Inspectors*
- *Foreign Service Officers*
- *Government Benefits Interviewers*
- *Interpreters and Translators*
- *License Clerks*
- *Mail Carriers*
- *Meter Readers*
- *Postal Clerks*
- *Postmasters and Mail Superintendents*
- *Social and Community Services Managers*
- *Social Science Research Assistants*
- *Tax Examiners*
- *Transportation Inspectors*
- *Urban and Regional Planners*

Occupations

- Anesthesiologists
- Athletic Trainer
- Chiropractor
- Dental Hygienists
- Dental Lab Techs
- Dentist
- Dermatologists
- Dietitians
- Emergency Medical Technicians
- Exercise Physiologist
- General Practitioner
- Health Services Administrators
- Home Health Aides
- Licensed Practical Nurses
- Massage Therapists
- Medical Assistants
- Medical Lab Techs
- Medical Scientists
- Medical Secretaries
- MRI Technologist
- Nuclear Medicine Technologies
- Nurse Anesthetists
- Nurse Practitioners
- Gynecologists
- Optometrists
- Pediatrician
- Pharmacists
- Phlebotomists
- Physical Therapists
- Physicians Assistants
- Podiatrists
- Psychiatrist
- Radiologists
- Registered Nurses
- Surgeons

Health Science

Are science classes your favorite?

Do you enjoy helping people?

Have you served as a volunteer in a hospital?

Do you follow instructions exactly?

Can you work fast in an emergency?

Do you take good notes in class?

If you answered yes to two or more of the questions above, you might be interested in considering a career in health science.

In the Health Science cluster you would promote health and wellness or diagnose and treat injuries and disease. You could work directly with people. Or you could work in laboratories to get information used in research or diagnosis. Health service employees may work in hospitals, offices, or laboratories. Others work on cruise ships, at sports arenas, or within communities.

Helpful High School Electives

Child Development
Microsoft Word and Excel
ECC Human Biology
ECC Anatomy and Physiology
AP Chemistry
Organic Chemistry
ECC Medical Terminology
ECC Intro to Allied Health
AP Biology
Speech
Athletic Training
Sociology
AP Statistics
Psychology
Higher level math classes

Upper Valley Career Center Offerings

Medical Careers Academy
Exercise Science

Edison Community College Offerings

Phlebotomy, certificate
Physical Therapy Assistant, AAS
Registered Nursing, AAS
Medical Lab Technician, AAS

Menlo Park: Health Sciences

I want to be a [Nurse](#)

I want to be a [Medical Lab Technician](#)

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
AP Statistics
Microsoft Word and Excel
Psychology
ECC Human Biology
ECC Anatomy and Physiology
Organic Chemistry
ECC Intro to Health Care
ECC Medical Terminology

Piqua HS

4 years CP English/AP English
4 years CP Math
WSU Pre-Calculus
AP Statistics
Microsoft Word and Excel
Sociology
Psychology
Chemistry
ECC Human Biology
Organic Chemistry
ECC Intro to Health Care
ECC Medical Terminology

Piqua HS

4 years CP Eng/AP Eng
4 years CP Math
WSU Pre-Calculus
Chemistry
AP Physics B
Microsoft Word and Excel
Sociology
Psychology
ECC Human Biology
ECC Anatomy and Phys.
Athletic Training
ECC Intro to Health Care
ECC Medical Terminology

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 University
Registered Nursing
LPN to RN Program

4-Year University
Bachelor of Science in
Nursing

Graduate School
Nurse Practitioner

2-Year University
Medical Laboratory
Technician

4-Year University
Medical Laboratory Science

Graduate School
Medical Laboratory Science

2-Year University
Physical Therapy Assistant

4-Year University
Pre-Physical Therapy

Graduate School
Physical Therapy

Ohio Job Outlook
Growth Rate: 20%

Annual Openings: 2,000-5,000

Ohio Job Outlook
Growth Rate:
MLT: 10%,
MLS: 7.5%

Annual Openings:
MLT: 177
MLS: 173

Ohio Job Outlook
Growth Rate:
PTA: 29%,
PT: 25%

Annual Openings:
PTA: 162
PT: 302

Median Ohio Salary
RN/BSN: \$60,000
NP: \$87,000
LPN: \$40,000

Median Ohio Salary
MLT: \$39,000
MLS: \$55,000

Median Ohio Salary
PTA: \$54,000
PT: \$80,000

Menlo Park: Health Sciences

I want to work as a **Medical Secretary**

Piqua HS
4 years CP English/AP English
ECC Human Biology
4 years CP Math
Finance and Banking
Microsoft Word and Excel
ECC Medical Terminology
Speech
Sociology

Upper Valley Career Center
Medical Careers Academy

2-Year College
Office Systems and Administration

4-Year University
Not Needed

Ohio Job Outlook
Growth Rate: 31%
Annual Openings: 1,600

Median Ohio Salary
\$29,000

I want to be a **Nursing Assistant, Medical Assistant, or Phlebotomist**

Piqua HS
Earn 7 credits in English, Math, Science, and Social Studies.
ECC Medical Terminology
ECC Human Biology
Psychology
ECC Intro to Health Care

Upper Valley Career Center
Medical Careers Academy

2-Year College
Medical Assistant
Phlebotomy

4-Year University
Not Needed

Ohio Job Outlook
Growth Rate:
STNA: 13%
MA: 21%
P: 12%

Annual Openings
STNA: 2,000
MA: 793
P: 224

Median Ohio Salary
STNA: \$23,000
Med. Assist: \$27,000
Phlebotomy: \$29,000

Hospitality and Tourism

Can you talk easily with all kinds of people and put them at ease?

Do you participate in athletic activities?

Do you enjoy travel?

Have you worked in a restaurant?

Do you like to plan family recreational activities?

Do you like to cook?

If you answered yes to two or more of the questions above, you might be interested in considering a career in hospitality and tourism.

In the Hospitality and Tourism cluster, you could work in a restaurant, hotel, sports arena, or travel agency. You might manage operations of a college cafeteria. Or you might guide high school students on a trip to Spain. Or you might rent equipment at a recreation center.

Helpful High School Electives

World Languages

Principles of Food

Nutrition and Wellness

Introduction to Business

Introduction to Marketing

Personal Finance

Speech

Upper Valley Career Center Offerings

Culinary Arts

Occupations

- *Baggage Porters and Bellhops*
- *Baristas*
- *Caterers*
- *Chefs and Dinner Cooks*
- *Concierges*
- *Counter Attendants*
- *Fast Food Cooks*
- *Food Preparation Workers*
- *Hotel and Motel Managers*
- *Janitor and Housekeeper Supervisors*
- *Recreation Attendants*
- *Recreation Workers*
- *Reservation and Ticket Agents*
- *Restaurant Hosts*
- *Restaurant Managers*
- *Tour Guides*
- *Travel Agents*
- *Waiters and Waitresses*
- *Wedding Planners*

Occupations

- *Addictions Counselors*
- *Barbers*
- *Child Care Workers*
- *Clergy*
- *Customer Service Representatives*
- *Embalmers*
- *Financial Counselors*
- *Funeral Attendants*
- *Funeral Directors*
- *Genetic Counselors*
- *Hairstylists and Cosmetologists*
- *Dry Cleaning Workers*
- *Manicurists*
- *Marriage and Family Therapists*
- *Mental Health Counselors*
- *Professional Organizers*
- *Psychologist*
- *Rehabilitation Counselors*
- *Residential Counselors*
- *School Counselors*
- *School Psychologists*
- *Social and Human Services Assistants*
- *Social Workers*
- *Tattoo Artists*

Human Services

*Do you help friends with their personal problems?
Have you planned programs for school or community organizations?
Are you a good listener?
Do you care about people and want to help in some way?
Have you cared for children or done babysitting?
Do you like to help friends and family members look their best?*

If you answered yes to two or more of the questions above, you might be interested in considering a career in human services.

In the Human Services cluster, you would work with individuals and families to meet their personal needs.

Helpful High School Electives

Child Development
Microsoft Word and Excel
Psychology
Sociology
Speech
Mentoring
AP World History
Minority Studies
AP Statistics
World Languages

Upper Valley Career Center Offerings

Cosmetology

Edison Community College Offerings

Social Services, AAS
Psychology, AA or AS
Philosophy, AA

Information Technology

Do you enjoy working with computers and learn new programs quickly?

Have you created your own webpage?

Is mathematics a favorite subject?

Are you organized and able to focus on details?

If you answered yes to two or more of the questions above, you might be interested in a career in information technology.

Information Technology (IT) is an area that is growing and always changing with new developments. In IT, you would be part of a cluster that continues to make an impact on society and individuals. You would have the opportunity to work in all types and sizes of businesses.

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 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.

Helpful High School Electives

Microsoft Word and Excel

AP/CSU Computer Science Principles

WSU Calculus

AP Statistics

Media I & II

Advanced Media Production

Digital Media Marketing

Upper Valley Career Center Offerings

Computer Information Technologies

Interactive Media

Edison Community College Offerings

Business Systems Option, AAB and certificate

Interactive Technology Programming and Design, AAB

Network and Computer Security Option, AAB

Network Computer Management Option, AAB and certificate

Programming Option, AAB and fast track

Systems Administrator Option, AAB and certificate

CIT, certificate

Computer Languages, certificate

Database Specialist, certificate and fast track

.Net Programming, fast track

Basic Computer Skills, fast track

Cisco Certified Network Associate, fast track

Computer Maintenance, fast track

Help Desk, fast track

Microsoft Academic Training, fast track

Mobile Application Development, fast track

Networking, fast track

Regional Cisco Academy, fast track

Occupations

- *Computer and Information Systems Managers*
- *Computer Engineers*
- *Computer Security Specialists*
- *Computer Support Specialists*
- *Computer Systems Administrators*
- *Computer Systems Analysts*
- *Database Administrators*
- *Web Developers*

Menlo Park: Information Technology

I want to work as a [Computer Programmer](#), [Information Systems Manager](#), or [Computer Security Specialist](#)

Piqua HS
4 years CP English/AP English
WSU Pre-Calculus
AP Statistics
Microsoft Word and Excel
Sociology
Psychology
WSU Calculus
Physics
AP Physics
Engineering Design
Media I & II
Digital Media Marketing
Computer Science Principles
Intro to Marketing
Advanced Media Production

Upper Valley Career Center
Interactive Media
Computer Information Tech

2-Year University
Computer Information Technology

4-Year University
Computer Science

Graduate School
Masters of Business Admin
Management Information Systems

Ohio Job Outlook

Growth Rate:
CP: 4.8%
ISM: 14.6%
CSS: 15.7%

Annual Openings:
CP: 280
ISM: 323
CSS: 313

Median Ohio Salary

CP: \$66,500
ISM: \$110,000
CSS: \$83,000

Occupations

- *Ambulance Drivers*
- *Animal Control Workers*
- *Mediators*
- *Bailiffs*
- *Border Patrol Agents*
- *Coroners*
- *Corrections Officers*
- *Court Clerks*
- *Crossing Guards*
- *Detectives*
- *Emergency Management Specialists*
- *Fire Fighters*
- *Fire Inspectors*
- *Fire Investigators*
- *Forensic Science Technicians*
- *Judges*
- *Law Clerks*
- *Lawyers*
- *Legal Secretaries*
- *Life Guards and Ski Patrollers*
- *Paralegals*
- *Parking Enforcement Officers*
- *Police Supervisors*
- *Police Patrol Officers*
- *Private Detectives*
- *Probation Officers*
- *Secret Service Agents*
- *Security Guards*
- *Sheriffs*
- *Transportation Security Agents*

Law and Public Safety

Are you able to work under pressure?

Can you work with various kinds of people?

Do you like to help people?

Can you work in the face of danger?

Are you good at winning arguments?

Do you instruct friends and family members on laws and regulations?

If you answered yes to two or more of the questions above, you might be interested in considering a career in law, public safety, or security.

If you are interested in working in this cluster, you have several options. One option is to guard the 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.

Helpful High School Electives

AP Government

World Language

Microsoft Word and Excel

Psychology

Speech

Edison Community College Offerings

Criminal Justice (computer forensics option), AAS

Peace Officer Academy, fast track

Paralegal Studies, AAB

Manufacturing Technologies

Are you good with working with your hands?

Can you explain to others how a machine works?

Do you set up and repair stereo equipment for yourself or friends?

Do you enjoy reading the latest developments in electronics?

Can you visualize how a machine works?

If you answered yes to two or more of the questions above, you might be interested in considering a career in manufacturing, installation, or repair.

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 make the product. The final option is to install and repair the product once it has been purchased.

Helpful High School Electives

Exploring Technology

AP/CSU Computer Science Principles

Engineering Design

Robotics CIM

Upper Valley Career Center Offerings

Electronic Applications

Manufacturing and Machining Technologies

Welding Technologies

Edison Community College Offerings

Industrial Management, AAS

Operations Technology, certificate

Supply Chain Management, certificate and fast track

Six Sigma, fast track

Quality Management, fast track

Manufacturing Management, fast track

Lean Manufacturing, fast track

Basic Human Relations, fast track

Occupations

- *Chemical Engineers*
- *Chemical Plant Operators*
- *Coin and Vending Machine Repairs*
- *Forklift Operators*
- *Geothermal Technicians*
- *Home Electronic Repairs*
- *Hydroelectric Production Managers*
- *Jewelers*
- *Locksmiths*
- *Machinists*
- *Packers and Packagers*
- *Power Plant Operators*
- *Precision Assemblers*
- *Quality Control Inspectors*
- *Safety Engineers*
- *Security/Fire Alarm Systems Installers*
- *Sewing Machine Operators*
- *Shoe and Leather Workers*
- *Tailors*
- *Tool and Die Makers*
- *Tool Grinders*
- *Watch Repairers*
- *Welders*
- *Wind Turbine Technicians*
- *Woodworking Machine Operators*

Occupations

- *Advertising Salespeople*
- *Buyers and Purchasing Agents*
- *Cashiers*
- *Counter and Rental Clerks*
- *Customer Service Manager*
- *Demonstrators and Promoters*
- *Floral Designers*
- *Market Research Analysts*
- *Marketing Managers*
- *Merchandise Displayers*
- *Models*
- *Opticians*
- *Parts Salespeople*
- *Public Relations Managers*
- *Purchasing Managers*
- *Real Estate Agents*
- *Retail Salespeople*
- *Route Salespeople*
- *Sales Managers*
- *Sales Representatives*
- *Sales Worker Supervisors*
- *Telemarketers*

Marketing

Do you sell advertising space for the school yearbook or newspaper?

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?

Are you friendly and outgoing?

If you answered yes to two or more of the questions above, you might be interested in considering a career in marketing, sales, and service.

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. Or you might sell products and services directly to customers. Or you might use the Internet to reach customers.

Helpful High School Electives

Microsoft Word and Excel

Introduction to Business

Introduction to Marketing

Newspaper

Speech

Sports/Entertainment Marketing

Yearbook

AP Statistics

AP Calculus

Economics

Personal Finance

Digital Media Marketing

Advanced Media Production

Edison Community College Offerings

Business Management, Marketing Option, AAB and certificate

Real Estate, certificate and fast track

Transportation Systems

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?

Do you repair your or your family's and friends' vehicles?

Do you like to read automotive or mechanical magazines?

If you answered yes to two or more of the questions above, you might be interested in considering a career in transportation, distribution, and logistics.

If you are interested in working in this cluster, you have three avenues. One is to move people and products by road, air, rail, or water. You would drive or pilot different means of transportation. The second is to repair and maintain the vehicles, trains, planes, and ships to keep people and products moving. The third option is to work behind the scenes to make sure the products and people get to the right place on time.

Helpful High School Electives

Exploring Technology

Engineering Design

Robotics CIM

Upper Valley Career Center Offerings

Aerospace Occupations

Auto Collision Repair Technologies

Auto Services

Automotive Technologies

Occupations

- *Air Traffic Controllers*
- *Aircraft Mechanics*
- *Airplane Pilots*
- *Auto Body Repairers*
- *Bus and Truck Mechanics*
- *Bus Drivers*
- *Deckhands*
- *Dispatchers*
- *Flight Attendants*
- *Freight Handlers*
- *Heavy Equipment Mechanics*
- *Heavy Truck Drivers*
- *Light Truck Drivers*
- *Locomotive Engineers*
- *Motorboat Mechanics*
- *Motorcycle Mechanics*
- *Parking Lot Attendants*
- *Riggers*
- *Service Station Attendants*
- *Ship Engineers*
- *Taxi Drivers and Chauffeurs*
- *Train Conductors*
- *Transportation Agents*
- *Vehicle Cleaners*

Four-Year Schedule

Name: _____

ID: _____

Date: _____

Check one box for your intended career plans:

Upper Valley CC Employment Military College
 Undecided

What do you want to study after high school? _____

9 th	Semester I: Course and Number	Semester II: Course and Number	Credits
1			
2			
3			
4			
5			
6			
7			
8			

10 th	Semester I: Course and Number	Semester II: Course and Number	Credits
1			
2			
3			
4			
5			
6			
7			
8			

11 th	Semester I: Course and Number	Semester II: Course and Number	Credits
1			
2			
3			
4			
5			
6			
7			
8			

12 th	Semester I: Course and Number	Semester II: Course and Number	Credits
1			
2			
3			
4			
5			
6			
7			
8			

English

111 ENGLISH 9 COLLEGE PREP and RTI INTERVENTION

GRADES: 9

PREREQUISITE: Teacher Recommendation

2 CREDITS

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. This course will meet 2 consecutive periods per day, and it requires the ability to learn both independently and in small groups. The English RTI Support class will count as an elective credit. To qualify for this course, students' scores on standardized tests will be evaluated and students must be recommended by their English teacher. Materials Needed: Three-ring binder, tab dividers, loose leaf paper, blue or black pens/pencil, and highlighter.

112 ENGLISH 9 COLLEGE PREP

GRADES: 9

PREREQUISITE: Passing English 8

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. Materials Needed: Three-ring binder, tab dividers, filler paper, blue or black pens/pencil, and highlighter.

113 PRE-AP ENGLISH 9

GRADES: 9

PREREQUISITE: B English 8, Accelerated or Advanced on AIR

1 CREDIT

Students are required to complete a summer assignment. 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. Materials Needed: Three-ring binder, tab dividers (5), loose leaf paper, blue or black pens/pencil, and highlighter.

121 ENGLISH 10

GRADES: 10

PREREQUISITE: English 9

1 CREDIT

English 10 is for students wanting to pursue an education at the UVCC or gain employment after graduating. This class is for students who need to improve their reading comprehension, writing skills, and vocabulary. This class will focus on the integration of literature, writing, and composition skills. Writing assignments will be in collaboration with the textbooks used in class. Instruction will be based on Ohio content standards. The NCAA does not accept this course. Materials Needed: Three-ring binder, tab dividers, loose leaf paper, blue or black pens/pencil, and highlighter.

122 ENGLISH 10 COLLEGE PREP**GRADES: 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. Materials Needed: Three-ring binder, tab dividers, loose leaf paper, blue or black pens/pencil, and highlighter.

123 PRE-AP ENGLISH 10**GRADES: 10****PREREQUISITE:** Pre-AP Eng 9 or Eng 9 CP with teacher approval**1 CREDIT**

Students are required to complete a summer assignment. This course is designed for students who are planning to take Advanced Placement English in their junior and/or senior year. Extensive reading and writing will be the focus. Oral participation and organizational 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. Materials Needed: Three-ring binder, tab dividers, loose leaf paper, blue or black pens/pencil, and highlighter.

131 ENGLISH 11**GRADES: 11****PREREQUISITE:** English 10**1 CREDIT**

This class is for students who need to improve their reading comprehension, writing skills, and vocabulary. Students will be studying American literature with an emphasis on the 11th grade Ohio Academic Standards, including the areas of reading, writing, acquisition of vocabulary, research, and oral and visual communication. The NCAA does not accept this course. Materials Needed: Three-ring binder, tab dividers, loose leaf paper, blue or black pens/pencil, and highlighter.

132 ENGLISH 11 COLLEGE PREP**GRADES: 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. Materials Needed: Three-ring binder, tab dividers, loose leaf paper, blue or black pens/pencil, and highlighter.

English

133 AP ENGLISH LANGUAGE AND COMPOSITION

GRADES: 11

PREREQUISITE: Pre-AP Eng 10 or Eng 10 CP 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. Materials Needed: Three-ring binder, tab dividers, loose leaf paper, blue or black pens/pencil, and highlighter.

141 ENGLISH 12

GRADES: 12

PREREQUISITE: English 11

1 CREDIT

Students will review and continue to improve their reading, writing, and vocabulary skills in this class. Students will also work on collaborative and organizational skills. There is an emphasis on reading process skills and opportunity for literary analysis. Writing will focus on a variety of purposes and audiences. 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. The NCAA does not accept this course. Materials Needed: Three-ring binder, tab dividers, loose leaf paper, blue or black pens/pencil, and highlighter.

142 ENGLISH 12 COLLEGE PREP

GRADES: 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. Materials Needed: Three-ring binder, tab dividers, loose leaf paper, blue or black pens/pencil, and highlighter.

143 AP ENGLISH LITERATURE AND COMPOSITION**GRADE: 12****PREREQUISITE:** AP Eng Lang & Comp or English 11 CP 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 works. 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. Materials Needed: 1 - 1 ½ inch Three-ring binder, dividers, post-it notes, highlighters, and folder.

150 NEWSPAPER WRITING**GRADES: 10-12****PREREQUISITE:** C in prior English or teacher approval **1 CREDIT**

The purpose of Newspaper Writing will be to develop the skills needed to write publishable newspaper articles. Emphasis will be placed on deciding what is a newsworthy item, writing a good lead, interviewing for information, and creating interesting titles. Students will be writing articles for the school newspaper *The Tomahawk Beat*, which is published online, as well as *Smoke Signals*, which appears in the local paper, *The Piqua Daily Call*, once a week. They will be required to meet weekly deadlines, and may have to do some reporting outside of the school day. Photography and graphic design experience, while not required, is also a plus for this class. This course is for elective credit. Materials Needed: Spiral Notebook.

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. Materials Needed: None.

English

155 SPEECH

GRADES: 10-12

PREREQUISITE: C in English or teacher approval

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. This course is for elective credit. Materials Needed: 3 x 5 lined note cards, folder, and loose leaf notebook paper.

152 THE NOVEL

GRADES: 10-12

PREREQUISITE: English 9 and C in current English

½ CREDIT

The course will explore the relatively recent origin and evolution of the novel. The majority of the coursework will involve reading, discussion, and written analysis of the novels read. Class time will be given for reading assignments, but students will be expected to read outside of class. Approximately 4-5 novels will be read in the semester. Students may be required to purchase some paperback titles. Novels read in this class will not count toward independent reading in regular English classes. Novels may contain mature content. This course is for elective credit. Materials Needed: Folder.

154 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. This course is for elective credit. Because of the participatory nature of this class, attendance is graded. Materials Needed: Folder.

156 FILM AS LITERATURE

GRADES: 10-12

PREREQUISITE: C in prior English

½ CREDIT

This course will use both film and literature terminology to better understand the craft of story-telling through film. Both classic and modern films will be viewed, offering students not only enrichment in critical thinking skills, but an education in our shared culture as well. The heart of the class is discussion. Since careful viewing of the film is important for good class discussion, excellent attendance is imperative for success in this class. Students will write various papers in response to films. You'll never see a movie the same way again! This course is for elective credit only. Materials Needed: Folder.

153 ACT/SAT TEST PREP

GRADES: 11-12

PREREQUISITE: None

¼ CREDIT

The course is designed to help prepare students for the ACT and SAT standardized tests. Students will explore the tests and various testing strategies to improve their chances of success. The course will last one quarter. Beyond the quarter, students will be able to flex or take a study hall for the rest of the semester. Materials Needed: None.

311 & 310 ALGEBRA I & MATH RTI SUPPORT I**GRADES: 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 2 consecutive periods per day, and it requires the ability to learn both independently and in small groups. Students must successfully pass 16 Algebra units before the end of the school year in order to earn an Algebra credit, thus allowing them to move on to Geometry. The Math RTI Support class will count as an elective credit. To qualify for this course, students must take an Algebra Readiness Assessment in 8th grade AND be recommended by their math teacher. Materials Needed: A TI-84 Plus calculator, notebook paper, and pencil.

312 ALGEBRA I**GRADES: 9****PREREQUISITE:** None**1 CREDIT**

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. Materials Needed: A TI-84 Plus calculator, notebook paper, and pencil.

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: A TI-84 Plus calculator, notebook paper, compass, protractor, and pencil.

321 GEOMETRY & MATH RTI SUPPORT II**GRADES: 10-12****PREREQUISITE:** Teacher Approval**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. This course will meet 2 consecutive periods per day, and it requires the ability to learn both independently and in small groups. The Math RTI Support class will count as an elective credit. To qualify for this course, students must be recommended by their math teacher. Materials Needed: A TI-84 Plus calculator, notebook paper, compass, protractor, and pencil.

Math

331 PRE-ALGEBRA II

GRADES: 9-12

PREREQUISITE: Geometry

1 CREDIT

This course is designed for students who had difficulty in Geometry and are not prepared for an Algebra II course at this time. Topics covered include algebraic concepts, geometric concepts, functions, and graphing calculator skills. Successful completion of this course will allow students to move onto Algebra II. This course will NOT fulfill the graduation requirement for Algebra II. This course does not meet NCAA clearinghouse requirements. Materials Needed: A TI-84 Plus calculator, notebook paper, and pencil.

332 ALGEBRA II

GRADES: 9-12

PREREQUISITE: Alg C, Pass Algebra EOC Exam or PreAlg II

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: A TI-84 Plus calculator, notebook paper, and pencil.

333 ADVANCED ALGEBRA II

GRADES: 9-12

PREREQUISITE: A/B in Algebra and Geometry 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: A TI-84 Plus calculator, notebook paper, graph paper, and pencil.

343 PRE-CALCULUS

GRADES: 10-12

PREREQUISITE: A/B in Algebra II & 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. Trigonometry topics include basic trigonometric ratios, radians as an angle measure, trigonometric functions and their graphs, trigonometric identities, trigonometric description of complex numbers and roots and powers of real and complex numbers. Materials Needed: A TI-84 Plus calculator, notebook paper, and pencil.

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

This is a college level class. Students will receive 4 credits in Math 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 description of complex numbers and roots and powers of real and complex numbers. Materials Needed: A TI-84 Plus calculator, notebook paper, and pencil.

355 MATHEMATICS THROUGH MODELING**GRADES: 11-12****PREREQUISITE:** Algebra II**1 CREDIT**

This course is designed to introduce students to the process of creating and using mathematical models with real life applications. In this course, problem based learning of mathematics in real life applications is emphasized. Students will gather and analyze data in order to build, use, and evaluate mathematical models of real situations and phenomena. Activities will involve the application of mathematical concepts and practices, as well as critical thinking, and problem solving skills. This course will prepare you for the math ACT. This class does not meet the NCAA's standards for core Math. Materials Needed: A TI-84 Plus calculator, notebook paper, binder, and pencil.

350 AP STATISTICS**GRADES: 10-12****PREREQUISITE:** Algebra II**1 CREDIT**

The purpose of Advanced Placement 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. The course prepares students for the AP test in the spring where college credit may be earned. Materials Needed: A TI-84 Plus calculator, notebook paper, graph paper, and pencil.

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, notebook paper, and pencil.

Math

353 FINANCE & BANKING

GRADES: 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 saving accounts, budgeting, credit cards, insurance, transportation, and politics. This class does not meet the NCAA's standards for core Math. It is designed to meet State Financial Literacy requirements. Materials Needed: Notebook paper, scientific calculator, and pencil.

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, AP Physics C, 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: 2" Three-ring binder, loose leaf paper, colored pencils, pencils/pens, highlighter, and calculator.

412 BIOLOGY

GRADES: 9-10

PRE/COREQUISITE: Physical Science

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. Materials Needed: Paper, pencil, spiral notebook, colored pencils, glue stick, three-ring binder, 5 binder dividers, and highlighter.

413 PRE-AP BIOLOGY

GRADES: 9

PREREQUISITE: Current Physical Sci. 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. Materials needed: Paper, pencil, 3 ring binder, 5 dividers, and paper.

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: Notebook, 1" three-ring binder, scientific calculator, pens, pencils, and paper.

Science

423 PRE-AP CHEMISTRY

GRADES: 10

PREREQUISITE: Biology and Algebra II

2 CREDITS

Pre-AP Chemistry is an advanced college prep level course and is designed to prepare the student for AP Chemistry. *This course will take two periods.* 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. Materials Needed: permanent page notebook, binder, graphing calculator, and pencils

450 ASTRONOMY

GRADES: 10-12

PREREQUISITE: Physical Science

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. Materials required: notebook, and glue stick.

432 PHYSICS I

GRADES: 11-12

PREREQUISITE: Biology or Chemistry & Algebra II

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.

442 PHYSICS II

GRADES: 11-12

PREREQUISITE: Biology or Chemistry & Algebra II

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

453 AP PHYSICS I

GRADES: 11-12

PREREQUISITE: Pre-AP Chem & Pre-calculus

1 CREDIT

Advanced Placement Physics I 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 & rotation, gravitation, oscillation, waves, electrostatics, and current electricity. Materials Needed: A graphing calculator and lab fee.

455 AP PHYSICS II**GRADES: 11-12****PREREQUISITE:** Pre-AP Chemistry & Pre-Calculus**1 CREDIT**

Advanced Placement Physics II is a second year college level ALGEBRA-BASED physics course covering concepts not covered in AP Physics I. 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 Fluids, Temperature and Heat, Kinetic Theory/Thermodynamics, Conductors & Capacitors, Current Electricity, Magnetic Fields, Light and Optics, Modern Physics. Materials Needed: A graphing calculator and lab fee.

458 ECC BIO 124 HUMAN BIOLOGY**GRADES: 11-12****PREREQUISITE:** Bio, Meet Edison's CCP requirements**1 CREDITS**

This is a college level class. Human Biology is an introduction to the human organism with emphasis on: 1) the organ systems, 2) the balance between systems, 3) practical health-related aspects of each organ system, 4) human genetics, 5) interaction with microbes, and 6) man's place in the ecosystem. Students will earn 4 credits in BIO 124S from Edison Community College. The course is one period long. Materials Needed: Paper, pencil, spiral notebook, colored pencils, glue stick, and highlighter.

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

Biochemistry, bioenergetics, cytology, taxonomy, molecular biology, genetics and ecology are studied in a college laboratory setting. The objective of this course is to prepare students for the AP exam in May, which can qualify the student to receive college credit. At least an hour of homework each night should be expected. Materials Needed: Paper, pencil, spiral notebook, colored pencils, glue stick, and highlighter.

459 ECC ANATOMY AND PHYSIOLOGY**GRADES: 11-12****PREREQUISITE:** Bio, Chem, Edison's CCP requirements**2 CREDITS**

Anatomy and Physiology is a college level course designed to take the basic principles of cell structure and function and incorporate them into a working knowledge of the organ systems of the human body by using hands-on experiments and laboratory exercises to reinforce concepts presented in lecture. Includes the study of cells, tissues, and the following systems: integumentary, skeletal, muscular and nervous. Students will earn 4 credits in BIO 125S Anatomy and Physiology I and 4 credits in BIO 126S Anatomy and Physiology II from Edison Community College. The course has a lab and will take one period. Materials Needed: Paper, pencil, spiral notebook, colored pencils, glue stick, and highlighter.

Science

456 ECC OSA 151 MEDICAL TERMINOLOGY

GRADES: 11-12

PREREQUISITE: Bio, meet Edison's CCP requirements

1 CREDIT

Medical Terminology prepares students to gain proficiency in word analysis to break down complex medical terminology, and relate the medical terms to the structure and function of the human body systems. Emphasis is placed on anatomy and physiology of the body systems, pathology, oncology, pharmacology, radiology and nuclear medicine. Students are coached with root words, combining forms, prefixes, suffixes, usage of words, spelling, pronunciation, and sample case studies to analyze medical situations as used by health care professionals. Students will earn 3 credits in OSA 151S from Edison Community College. This is elective credit. Materials Needed: Lab fee, notebook, folder paper, pencil, and pen.

457 ECC ALH 101 INTRO TO HEALTHCARE

GRADES: 11-12

PREREQUISITE: Bio, meet Edison's CCP requirements

1/3 CREDITS

Introductory course for students in the allied health field. Introduces students to the medical profession, the health care team, health care settings, communication, professionalism, medical law and ethics, infection control and standard precautions. Students will earn 1 credit in ALH 101S from Edison Community College. The course is a semester long. This is elective credit. Materials Needed: Lab fee, notebook, folder paper, pencil, and pen.

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 class is two periods long.* Materials Needed: 1" three-ring binder, scientific calculator, pens, pencils, and paper.

460 AP ENVIRONMENTAL SCIENCE

GRADES: 11-12

PREREQUISITE: Chemistry can be taken concurrently

1 CREDIT

AP Environmental Science is a college level course that covers topics including: earth systems and resources, the living world, human population, land and water use, energy resources and consumption, pollution, and global change. Expect nightly reading/outlining assignments and a fast-paced course. This class requires basic chemistry skills, as well as algebra-level math skills. The objective is to prepare students for the AP exam in May, which can qualify students to receive college credit. Materials needed: binder/notebook and writing utensils.

454 ECC ORGANIC CHEMISTRY

GRADES: 12

PREREQUISITE: Chemistry, meet Edison's CCP requirements

1 CREDIT

ECC Organic Chemistry is a college level chemistry course designed for students who are interested in the sciences. The topics to be covered will be chemistry within living organisms including: solutions, acids, bases, and bonding; organic chemistry and biochemistry; and the structure of organic molecules and selected reactions. Materials Needed: 1" three-ring binder, scientific calculator, pens, pencils, and paper.

211 WORLD STUDIES
PREREQUISITE: None

GRADES: 9
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. Materials Needed: Three-ring binder, loose leaf paper, tabs, pencils, and pens.

212 WORLD STUDIES COLLEGE PREP
PREREQUISITE: None

GRADES: 9
1 CREDIT

World Studies College Prep 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. This course will cover more material than World Studies II. The tests and assignments are more difficult. Essays and journals are required, and there will be quarterly projects. Materials Needed: Pencils and notebook.

221 U. S. STUDIES
PREREQUISITE: None

GRADES: 10
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. Materials Needed: None.

222 U. S. STUDIES COLLEGE PREP
PREREQUISITE: None

GRADES: 10
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 also be additional out of class work and projects. Materials Needed: Three-ring binder, loose leaf paper, tab binder dividers, and pencils/pens.

223 ECC US HISTORY
PREREQUISITE: World Studies CP, Meet Edison CCP requirements

GRADES: 10-12
2 CREDITS

This is a college level course designed to survey U.S. history from the prehistoric period of North America to the present. Major themes and significant topics to be explored include the settlement of the North American continent, including the European explorations and the native people's responses and reactions to that contact; Colonial British North America; the war for American independence; early agricultural and industrial development; the issue of slavery; western expansion; and the American Civil War; American industrialization; America's involvement in foreign affairs; the World Wars and international conflicts; the Great Depression; the Civil Rights Movement; and contemporary issues. Students enrolling in this course will earn 3 credits from Edison in HST 121S and 3 credits in HST 122S. Could be taken for a semester per teacher approval. *This course will take one period.* Students will go on a co-curricular study trip to Gettysburg as part of the course. Materials Needed: Three-ring binder, loose leaf paper, binder dividers, and pencils/pens.

Social Studies

263 HISTORY OF ROCK AND ROLL

GRADES: 10-12

PREREQUISITE: None

½ CREDIT

You will explore modern instruments, the recording industry, the evolution of popular and rock music, music and the media, and the role music plays in our society" (NHV curriculum guide). This course is designed to provide a historical perspective and insight into popular music of the twentieth century. Students will gain knowledge of rock and rolls roots, and will explore artists throughout the decades that have influenced the art form. Materials Needed: 3 ring binder with loose leaf paper, a notebook with a folder, pencil.

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. Materials Needed: None.

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. Materials Needed: None.

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 and to deal with their personal finances. Materials Needed: None.

254 MINORITY STUDIES

GRADES: 11-12

PREREQUISITE: C in World Studies & US Studies

½ CREDIT

This course is designed to expand a student's knowledge of U. S. history by exploring the experiences of African Americans. Must present to the class at least one PowerPoint presentation based on research for the course. Credit denied for failure to complete project. Materials needed: Pencils, notebook, Flash Drive, and working knowledge of PowerPoint.

255 PSYCHOLOGY**PREREQUISITE:** None**GRADES:** 11-12**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. Materials Needed: None.

256 CURRENT EVENTS**PREREQUISITE:** World Studies and US Studies**GRADES:** 11-12**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. Materials Needed: Pencil and notebook.

257 SOCIOLOGY**PREREQUISITE:** None**GRADES:** 11-12**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. Materials Needed: None.

261 AP WORLD HISTORY**PREREQUISITE:** World Studies CP and teacher approval**GRADES:** 11-12**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. Students completing this course will also be required to participate in History Day projects. 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. Students will complete a summer assignment. Materials Needed: Pencil, notebook, and three-ring binder.

Social Studies

750 ART I: INTRODUCTION TO ART**GRADES: 9-12****PREREQUISITE:** None**1 CREDIT**

A PREREQUISITE FOR ALL OTHER ART CLASSES. This is an introductory class into the study of professional art. Projects will focus upon realism, basic composition, value, color theory, and the overall quality of individual artwork. The purpose of this class is to build skills in design as well as developing a strong work ethic. This is perfect preparation for those wishing to continue the study of art as well as demonstrating the importance visual art has within our lives. Students will learn to find deeper meaning and purpose behind historical works of art as well as within their own creations. This is a serious subject. There will be reading, writing, and tests. This is also an important foundation class for all students who have a common respect and curiosity about the world of professional art and their future place within it. Materials Needed: Pencil, eraser, colored pencils, and sketchbook.

751 ART II: DRAWING/PAINTING**GRADES: 10-12****PREREQUISITE:** Art I: Introduction to Art**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 focus heavily upon realism, proportion, composition, elements of light, and the overall quality of the artwork. Expectations are set high. Students must work to surpass all basic requirements as well as meet every deadline. They will learn how to better express their ideas and technical knowledge behind their projects both verbally and in written form. Basically, in this class, students will begin to draw and paint and talk and think just like the professionals. At the conclusion of this class, students will make an easy transition into Art III: Studio Art class. Materials Needed: Sketchbook.

752 ART III: STUDIO ART**GRADES: 11-12****PREREQUISITE:** Art II: Drawing/Painting**1 CREDIT**

A fast paced art course geared towards the serious art student. This class will help the former Art II: Drawing/Painting student transition into an excellent top-level 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 continue to focus upon realism and precision throughout various art projects in class as well as work with a diverse amount of art mediums available. They must meet all deadlines and exceed the basic 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. Essentially, most of the junior year artwork created in this class will become portfolio pieces added to their senior year AP Art work. Materials Needed: Sketchbook, pencil, and eraser.

753 AP STUDIO ART: 2 D DESIGN/DRAWING**GRADES: 12****PREREQUISITE:** Art III: Studio Art**1 CREDIT**

This is the fast paced, 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. 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". An AP Art student needs to apply the tools learned in class and create his/her own art projects outside of class. These projects will also be included within the final portfolio due at the end of his/her senior year. *Through AP testing, this course also provides a fantastic opportunity to receive college credit.* Materials Needed: Sketchbook, pencil, and eraser.

754 PHOTOGRAPHY**GRADES: 10-12****PREREQUISITE:** Art I: Introduction to Art**½ CREDIT**

This course will teach the basic fundamentals of black and white photography. There will be a strong focus upon composition, construction of ideas, quality, and the overall history surrounding this medium. Everyone will be expected to take photographs outside of class and will also be expected to process film and develop prints in the darkroom during class time. *Students must provide their own supplies, including a 35mm camera as well as black and white film (T-Max 400 or Tri-X 400).* This is a serious subject. There will be reading, writing, and tests. Deadlines will be enforced. Therefore, only motivated students interested in learning about photography should attend. Materials Needed: Two rolls of black and white film and one pack of photo paper.

755 CERAMICS**GRADES: 11-12****PREREQUISITE:** Art I: Introduction to Art**½ CREDIT**

Students will complete a progressive series of projects that will promote exploration of the traditional building techniques in ceramic work. The vast range of ceramic techniques currently available to the contemporary ceramic artist will be presented. Course work will include the history of ceramics. 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. It is mandatory that students work outside of class to meet performance, reading, research, and report requirements. Materials Needed: Sketchbook.

Art

Business

500 MEDIA I

PREREQUISITE: None

GRADES: 9-12

½ CREDIT

Develop media literacy and basic knowledge of visual tools and computer software used in public media (television broadcast production and performance). Study principles and elements of basic video shooting, performance, production, and digital art. Plan, write, perform, record, edit, and revise student productions. In addition, work will be required outside of class time. This course is for elective credit only. Materials Needed: Flash drive.

501 MEDIA II

PREREQUISITE: B in Media I & teacher approval

GRADES: 9-12

½ CREDIT

Media II is the second semester course with the objective of enhancing skills, such as video animation, and production quality, for those associated with Media I. This course is for elective credit only. Materials Needed: Flash drive.

502 DIGITAL MEDIA MARKETING

PREREQUISITE: C in Media I and II & teacher approval

GRADES: 10-12

1 CREDIT

Digital Media Marketing will incorporate marketing techniques along with media technology to promote the students, Piqua City School District, and Piqua Community. Students will use different resources such as social media (twitter, Instagram), video production equipment (Apple computers, cameras, Final Cut Pro), website design, and graphic design for various projects. Throughout the course students will be assigned athletic teams, school organizations, clubs, and events and businesses in the community to market to the public. Materials Needed: Flash drive, notebook, and pencil/pen.

503 ADVANCED MEDIA PRODUCTION

PREREQUISITE: Digital Media Marketing & teacher approval

GRADES: 11-12

1 CREDIT

Advanced Video Production serves as a continuation of the skills learned in Media I, Media II, and Media Marketing. Projects will focus on community-wide issues. Students will have a voice in determining the types of projects the class works on. Each student is required to do TWO remote shoots per quarter. Remotes include recording concerts, events, meetings, and various sporting events. All projects produced will be uploaded to our YouTube Channel ([Youtube.com/piquadigital](https://www.youtube.com/piquadigital)) and shared with the community. Students are expected to complete an independent project focusing on a group, local business, person of interest, or issue in the community each semester. Materials Needed: Flash drive, notebook, and pencil/pen.

600 MICROSOFT WORD

PREREQUISITE: None

GRADES: 9-12

½ CREDIT

In this course students will begin with a short 2 week review of Keyboarding & Information Processing. Students will then move to Microsoft Office Word where they will concentrate on creating and editing word documents, creating cover letters and a resume, and creating a research paper. Materials Needed: Paper and pencil/pen.

610 ECC 101S MICROSOFT WORD**GRADES: 9-12****PREREQUISITE:** Meet Edison's CCP requirements**1/3 CREDIT**

This is a college level class. Basic principles of word processing are introduced. Using software packages students learn document creation, editing, formatting and printing along with file manipulation and word processing features such as the use of spell check. Students will earn 1 credit in CIT 101S from Edison Community College. Materials Needed: Paper and pencil/pen.

608 MICROSOFT EXCEL**GRADES: 9-12****PREREQUISITE:** None**½ CREDIT**

Basic concepts of spreadsheet creation and use. Using spreadsheet software students learn spreadsheet structure, the entry of values and labels, creating formula and function entries, file manipulation and the printing of reports. Materials Needed: Paper and pencil/pen

601 ECC 102 MICROSOFT EXCEL**GRADES: 9-12****PREREQUISITE:** Meet Edison's CCP requirements**1/3 CREDIT**

This is a college level course. Basic concepts of spreadsheet creation and use. Using spreadsheet software students learn spreadsheet structure, the entry of values and labels, creating formula and function entries, file manipulation and the printing of reports. Using database software students learn the basic concepts related to database management. Database structure, record creation and editing, and the production and printing of reports, and file manipulation are presented. Students will earn 1 credits in CIT 102S from Edison Community College. Materials Needed: Paper and pencil/pen.

604 INTRODUCTION TO BUSINESS**GRADES: 9-12****PREREQUISITE:** None**½ CREDIT**

This course is a broad overview of the functions of business as it relates to our environment, finances, technology, advertising, organization and management as applied by "real world" businesses. The Virtual Business interactive program, which is an essential part of this class, allows you to open, manage, solve real world problems and operate a business of your own. Students will have control over pricing, promotion, merchandising, market research, and ad design. Students will be asked to solve problems associated with competitors, shoplifting and expired goods. Materials Needed: Notebook and pencil/pen.

611 ECC INTRODUCTION TO BUSINESS**GRADES: 9-12****PREREQUISITE:** Meet Edison's CCP requirements**1 CREDIT**

This is a college level class. This course is a broad overview of the functions of business as it relates to our environment, finances, technology, advertising, organization and management as applied by "real world" businesses. The Virtual Business interactive program, which is an essential part of this class, allows you to open, manage, solve real world problems and operate a business of your own. Students will have control over pricing, promotion, merchandising, market research, and ad design. Students will be asked to solve problems associated with competitors, shoplifting and expired goods. Students will earn 3 credits in BUS 110S from Edison Community College. Materials Needed: Notebook and pencil/pen.

Business

606 PERSONAL FINANCE

GRADES: 9-12

PREREQUISITE: None

½ CREDIT

This class is a commerce and personal financial tool which relates specifically to students needs today and in the future regarding topics of budgeting, implications of scarcity, value, inventory control, credit cards, building wealth, money and capital, profits and motivation, student loans, debt management, and insurance and investments. Students will be introduced to the foundations of finance and the role, credit, savings, investments, business and consumer responsibilities play in their personal lives and the Free Enterprise economy. Business partnerships will be developed with financial service institutions (banks, credit unions, etc.), field trips and work-based learning activities. Materials Needed: Paper and pencil/pen.

612 ECC PERSONAL FINANCE

GRADES: 9-12

PREREQUISITE: Meet Edison's CCP requirements

1 CREDIT

This is a college level class. This class is a commerce and personal financial tool which relates specifically to students needs today and in the future regarding topics of budgeting, implications of scarcity, value, inventory control, credit cards, building wealth, money and capital, profits and motivation, student loans, debt management, and insurance and investments. Students will be introduced to the foundations of finance and the role, credit, savings, investments, business and consumer responsibilities play in their personal lives and the Free Enterprise economy. Business partnerships will be developed with financial service institutions (banks, credit unions, etc.), field trips and work-based learning activities. Students will earn 3 credits in BUS 116S from Edison Community College. Materials Needed: Paper and pencil/pen.

607 INTRODUCTION TO MARKETING

GRADES: 9-12

PREREQUISITE: None

½ CREDIT

Introduction to the basic concepts and activities of marketing, including the role and characteristics of the consumer, and an overview of the elements of the marketing mix, including the marketing product, promotional activities, pricing, and distribution. Basic marketing terms are introduced, along with experiential exercise in observing marketing activities in actual settings outside the classroom. Materials Needed: Notebook and pencil/pen.

609 SPORTS ENTERTAINMENT MARKETING

GRADES: 9-12

PREREQUISITE: None

½ CREDIT

In this course you will explore the intriguing and exciting world of sports and entertainment from the perspective of marketing and management. Topics dealing with college and amateur sports, professional sports, and the process of managing for success will be covered. The Virtual Business interactive simulation, which is an essential part of this class, is used to address ticket pricing, stadium staffing, booking and promoting concerts, concession sales, sponsorships and parking for revenue. Materials Needed: Paper and pencil/pen.

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 PRINCIPLES OF FOOD

GRADES: 9-10

PREREQUISITE: None

½ CREDIT

In this course, students will gain knowledge in food selection criteria and apply preparation methods to promote a healthy lifestyle. Students will apply cooking methods, ingredient selection and nutritional information in the context of selected food dishes. Throughout the course, basic food safety and sanitation techniques will be emphasized. Materials Needed: None.

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. Materials Needed: None.

555 CAREER AND COLLEGE READINESS

GRADES: 9-12

PREREQUISITE: None

½ CREDIT

In this course, students will develop effective learning strategies and skills to provide a strong foundation for successful lifelong learning. Throughout the course, students will research careers and occupations, review postsecondary admissions qualifications, develop interviewing skills and participate in internships. Additional topics will include principles and techniques of professionalism, networking, conflict-resolution, negotiation, leadership and entrepreneurship. Materials Needed: None.

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 place 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. Materials Needed: None.

Family Consumer Sciences

Family Consumer Sciences

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. Materials Needed: None.

551 TEXTILE DESIGN CONSTRUCTION & MAINTENANCE

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. Students will supply their own sewing kit which would include: scissors, tape measure, straight pins, seam ripper, needles, and a container for supplies. Materials Needed: None.

850 HEALTH**PREREQUISITE:** None**GRADES: 9-10****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.. Materials Needed: Folder and pencils/pens.

851 ATHLETIC TRAINING**PREREQUISITE:** Biology and health**GRADES: 10-12****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. Materials Needed: Notebook, folder, pens, and pencils.

864 WELLNESS PE**PREREQUISITE:** None**GRADES: 9-12****¼ 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. Materials Needed: None

860 YOGA/PILATES**PREREQUISITE:** None**GRADES: 9-12****¼ CREDIT**

Body conditioning combining flexibility, strengthening & balancing into one energizing workout. Students will earn this credit through a Flex Credit plan offered through the YMCA. Materials Needed: Change of clothes

861 ZUMBA**PREREQUISITE:** None**GRADES: 9-12****¼ CREDIT**

ZUMBA routines feature aerobic fitness interval training with a combination of fast and slow rhythms that tone and sculpt the body. You do not need to know how to dance. Students will earn this credit through a Flex Credit plan offered through the YMCA. Materials Needed: Change of clothes

Health and Physical Education

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.

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 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 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. Materials Needed: None.

805 SHOW CHOIR COMBO

GRADES: 9-12

PREREQUISITE: Audition

1 CREDIT

Show Choir Combo provides for 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 may not be a member of Winter sports from November 15 through March 15. Wind and percussionists are expected to participate in concert or symphonic band unless a scheduling conflict exists. Materials Needed: None.

804 MARCHING BAND/SYMPHONIC BAND**GRADES: 9-12****PREREQUISITE:** Instructor approval**1 CREDIT**

The "Pride of Piqua" Marching Band will rehearse during first semester. Marching band class will transition to symphonic Band the last few weeks of the semester to prepare for the Winter Holiday Concert. Marching band holds rehearsal during summer months and after school during the months of August - November. Students must attend band camp in July to be a member of the marching band (See director for details). The "Pride of Piqua" is a performance-based group that performs at football games, contest, parades, festivals, and community events. Marching Band is open to any student with prior band experience. New students are encouraged to join band (See band director to get permission). Symphonic Band will perform a variety of band styles including marches and modern symphonic works. This band will participate in district contests in the spring as well as perform winter and spring concerts. Band members will be assigned to a pep band during the second and third quarter as part of their performance requirement. Students who Flex 7th must return for class 8th period. Student must be in Symphonic Band in order to be in marching band. Contact band director if you have a scheduling conflict with Symphonic Band. Anyone wanting to sign up for just Symphonic Band b/c of sports conflict or conflicts with the marching band schedule, please see band director and guidance counselor. Materials Needed: None.

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

This course credit is for students attending the Upper Valley Career Center or a local college who want to be a part the of the "Pride of Piqua" Marching Band. Marching band holds rehearsal during summer months and after school during the months of August - November. Students must attend band camp in July to be a member of the marching band (See director for details). The "Pride of Piqua" is a performance-based group that performs at football games, contest, parades, festivals, and community events. Marching Band is open to any student with prior band experience. New students are encouraged to join band (See band director to get permission). Students will not perform with the symphonic band when marching band is finished. Materials Needed: None.

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/riffle 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. Materials Needed: None.

Music

Music

806 MUSIC APPRECIATION

GRADES: 10-12

PREREQUISITE: Instructor approval

½ CREDIT

This class can easily be paired with Intro to Music Theory. The class will focus on form and style periods and be geared to aid those students who wish to take the AP Music Theory exam. The exam covers many musical elements that coincide with music appreciation. This semester course will review various periods of music history, different styles of music, and the artists associated with these periods and style. The student will complete both in-class and out-of-class projects. This is not a performance class. Materials Needed: Notebook and pencil.

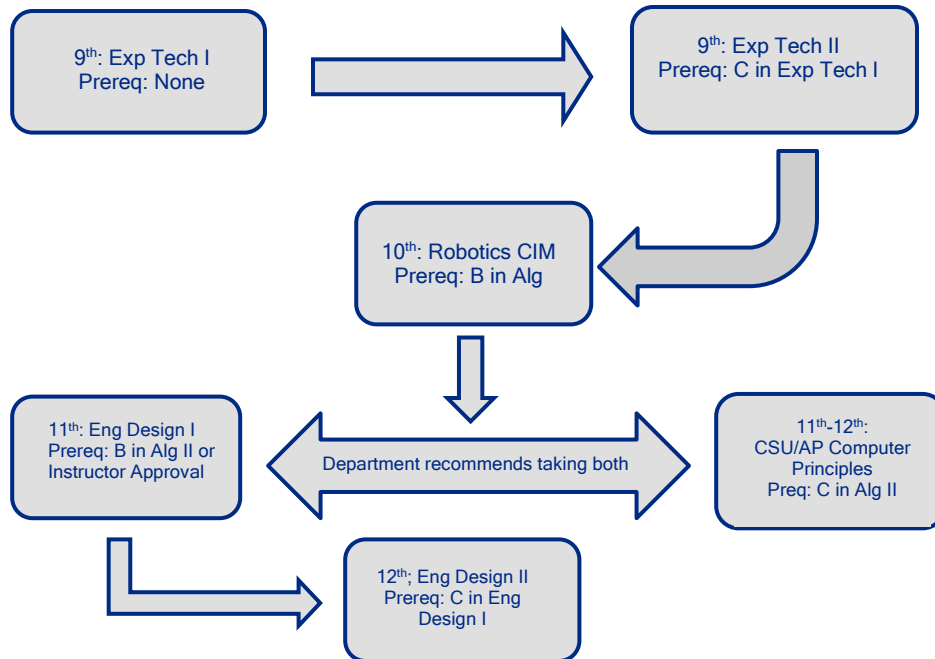
807 INTRO TO MUSIC THEORY

GRADES: 10-12

PREREQUISITE: Instructor approval

½ CREDIT

This semester 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 goal of this class is to get those students who are interested in taking AP Music Theory all on the same page and ready to go for summer assignments. If you are not interested in AP it will also be a good introduction to the basic elements of music. It is suggested to have some music background and be able to read music prior to this course. This class can easily be paired with Music Appreciation for a full year of credit. This class is a prerequisite for the AP Music Theory class. Materials Needed: 2" 3-ring binder and pencil.



650 EXPLORING TECHNOLOGY I

PREREQUISITE: None

GRADES: 9

½ CREDIT

Exploring Technology introduces students to a broad spectrum of engineering disciplines. These technologies may become of interest as a future career choice. There are twelve modules in the program. Six are studied during the first semester (Exploring Technology I) and the remaining six during the second semester (Exploring Technology II). Technologies studied are CAD/CAM, Machine Trades, Robotics, Plastics, Engineering Stresses, Artificial Intelligence, Fiber Optics and Lasers, Computer Graphics, Fluid Power, and Residential Design. *Students cannot be enrolled in Exploring Tech I or II and R & D.* Materials Needed: Notebook, folder, and pens/pencils.

651 EXPLORING TECHNOLOGY II

PREREQUISITE: C in Ex Tech I and instructor approval

GRADES: 9

½ CREDIT

This course is the completion of Exploring Technology I. In addition to the modules listed above, students will have teaming exercises designed to acquaint them to real world mock customers. Everything from public relations, design, specifications, environmental issues, product quality and financing; all from an engineer's perspective. *Students cannot be enrolled in Exploring Tech I or II and R & D.* Materials Needed: Notebook, folder, and pens/pencils.

653 ROBOTICS CIM

PREREQUISITE: B in Algebra and Instructor approval

GRADES: 10

1 CREDIT

In this course, students will be introduced to all aspects of computer-integrated manufacturing. They will learn about robotics and automation, manufacturing processes, computer modeling, manufacturing equipment, and flexible manufacturing systems. Materials Needed: Notebook, folder, and pens/pencils.

Pre-Engineering

654 ENGINEERING DESIGN I

GRADES: 11-12

PREREQUISITE: B in Algebra II and Instructor approval

1 CREDIT

The focus of Engineering Design is the application of the engineering design process. Topics include work-processes, optimization methods, design optimization, and risk management tools. Students will use 2D and 3D modeling software to help them design solutions to solve proposed problems, document their work, and communicate solutions. Additionally, students will interpret industry prints and create working drawings from functional models. Emphasis is given to experimental problem solving in real systems. Materials Needed: None.

655 ENGINEERING DESIGN II

GRADES: 12

PREREQUISITE: C in Eng Design I and Instructor approval

1 CREDIT

Students will learn the principles and practices of advanced 2D and 3D modeling, machine operation, and machine applications. Students will learn how machine components such as gears, belts, sprockets, bearings, clutches, couplings, and springs contribute to the application for which the machine is designed. They will also examine the basic drives of such mechanisms as electric motors and hydraulic & pneumatic actuators. Students will compete in battle bots competitions. Materials Needed: None.

656 CSU COMPUTER SCIENCE PRINCIPLES

GRADES: 11-12

PREREQ: Algebra II and Meet CSU CCP requirements

1 CREDIT

Cleveland State University Computer Science Principles follows the ideas and concepts also covered in the AP Computer Science Principles. This course is a multidisciplinary approach to teaching the underlying principles of computation. The course will introduce students to the creative aspects of programming, abstractions, algorithms, large data sets, the Internet, cybersecurity concerns, and computing impacts. This will give students the opportunity to use technology to address real world problems and build relevant solutions. Together, these aspects of the course make up a rigorous and rich curriculum that aims to broaden participation in computer science. Successful completion of the course will grant credit for CIS 151: Invitation to Computing from Cleveland State University. Materials Needed: None.

657 AP COMPUTER SCIENCE PRINCIPLES

GRADES: 11-12

PREREQ: C in Algebra II and Instructor approval

1 CREDIT

AP Computer Science Principles is a multidisciplinary approach to teaching the underlying principles of computation. The course will introduce students to the creative aspects of programming, abstractions, algorithms, large data sets, the Internet, cybersecurity concerns, and computing impacts. AP Computer Science Principles will give students the opportunity to use technology to address real-world problems and build relevant solutions. Together, these aspects of the course make up a rigorous and rich curriculum that aims to broaden participation in computer science. Materials Needed: None.

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. Materials Needed: None.

900 B 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. Materials Needed: None.

904A EMPLOYABILITY SKILLS A**GRADES: 9-10****PREREQUISITE:** Must be on an IEP**½ 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. Materials Needed: 3 ring binder

904B EMPLOYABILITY SKILLS B**GRADES: 9-10****PREREQUISITE:** Must be on an IEP**½ CREDIT**

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. Materials Needed: 3 ring binder

Technical

905 CONSTRUCTION TECHNOLOGIES

GRADES: 10

PREREQUISITE: None

1 CREDIT

In this course, students will learn physical principles and fundamental skills in construction. Students will select materials and assemble a basic project. Students will test basic electrical circuits. Students will select materials and assemble a basic plumbing system. They will perform simple maintenance of electric fixtures and plumbing fixtures. Students will also spend time exploring the HVAC, Electrical Trades and Carpentry programs at Upper Valley Career Center. This course takes place at the Upper Valley Career Center. Students travel to the UVCC for two periods during the first or second semester. Materials Needed: work boots or shoes.

902 & 903 CAREER BASED INTERVENTION

GRADES: 11-12

PREREQUISITE: Staff recommendation and application

4 CREDITS

The Career Based Intervention Program (CBIP) helps students reach career and academic success, improve academic performance, graduate from high school, develop employability skills, implement a career plan, and participate in a career pathway in preparation for post-secondary education and/or the workforce. CBI is for students 16-19 years of age, or in the 11th & 12th grade and are interested in gaining employment during high school. Enrolled students will attend school periods 1-5A with academic classes offered online through Odysseyware. 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 develop good work habits. Students will be required to participate in extended classroom activities and field trips. This program is under the supervision of the Upper Valley Career Center. Materials Needed: (1) 1 1/2 inch three-ring binder and (1 set) 5 tab binder dividers.

701 CHINESE I

GRADES: 9-12

PREREQUISITE: C in English or letter of recommendation **1 CREDIT**

This course is an introduction of the Chinese language and culture. Students will acquire basic vocabulary and carry on a simple conversation in Chinese over topics such as their name, age, family members, time, sports, food, etc. Students will focus on speaking, while exposed to Chinese characters. This program will emphasize communicating in Chinese as well as cover knowledge about traditional culture. Materials Needed: None.

702 CHINESE II

GRADES: 10-12

PREREQUISITE: C in Chinese I S2 or teacher approval **1 CREDIT**

This course will include a continuation of the study of vocabulary and conversation. Reading and listening skills will be further developed through practical topics. The students will be able to write an article about their daily life. Use of Chinese characters will be expected. Students will use the present, past, and future tenses throughout the year. A deeper understanding of Chinese culture will be emphasized. Materials Needed: None.

703 CHINESE III

GRADES: 11-12

PREREQUISITE: C in Chinese II S2 or teacher approval **1 CREDIT**

This course is for students who want to seriously work towards mastering the Chinese language through reading, writing, speaking, and listening. A more advanced approach to all topics is taken. Students will use new vocabulary and sentence patterns, as well as, reading and translation to master the language. There will be more focus on character writing and speaking where students form short stories using vocabulary and given phrases. Students will be able to incorporate the present tense, as well as, the past and future tenses. A more in depth focus will be taken on traditional Chinese culture. Materials Needed: None.

711 FRENCH I

GRADES: 9-12

PREREQUISITE: C in English or letter of recommendation **1 CREDIT**

French I presents the vocabulary and grammar needed for basic oral and written communication in French. Students will be able to carry on a simple conversation in French over topics such as name, age, and weather. They will be able to ask the time, order in a restaurant, etc. Our program uses up-to-date videos shot on location in France to acclimate students to authentic accent and usage, as well as introduce them to French culture and geography. The smart board listening access through the online textbook component helps students build oral comprehension. Materials Needed: Folder, paper, pencil, and pen.

712 FRENCH II

GRADES: 10-12

PREREQUISITE: C in French I S2 or teacher approval **1 CREDIT**

French II continues to increase the students' vocabulary and grammar skills while exposing them to a significant number of beginning readings in French, along with simple sentence structure and paragraph responses to these readings. The video and CD formats are maintained, while students continue to learn about French culture, civilization, and geography. Materials Needed: Folder, paper, pencil, and pen.

World Languages

713 FRENCH III

GRADES: 11-12

PREREQUISITE: C in French II S2 or teacher approval

1 CREDIT

This course is designed for students who wish to explore and master the French language as a means of oral and written communication. Besides the work on language structure, reading, writing, and speaking in French are the main objectives of this program. Materials Needed: Folder, paper, pencil, and pen.

714 AP FRENCH LANGUAGE

GRADES: 12

PREREQUISITE: C in French III S2 or teacher approval

1 CREDIT

Advanced Placement French Language is for students who wish to develop proficiency and integrate their language skills, using authentic materials and sources. Students will demonstrate their level of French proficiency across three communicative modes: interpersonal, interpretive, and presentational. The course will include an intensive overall review of grammar, with a substantial increase in vocabulary as is related to the reading and conversation topics of the text. Students will be required to read *Le Prince de Condé* over the summer. French "humanities" will be studied - art, music, and literary greats, as well as current events and social issues. The course prepares students for the AP test in the spring where college credit may be earned. Materials Needed: Folder, paper, pencil, and pen.

721 AMERICAN SIGN LANGUAGE

GRADES: 9-12

PREREQUISITE: C in English or letter of recommendation

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. Materials Needed: Three-ring binder at least 1-inch or larger, paper, pencils/pens. Heavily suggested: USB (the larger space the better)

722 AMERICAN SIGN LANGUAGE II

GRADES: 9-12

PREREQUISITE: C in ASL S2 or teacher approval

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.

Materials Needed: Three-ring binder at least 1-inch or larger, paper, pencils/pens. Heavily suggested: USB (the larger space the better)

731 SPANISH I**GRADES: 9-12****PREREQUISITE:** C in English or letter of recommendation **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, communicate using basic vocabulary and greetings, and will have begun to use basic past tense. Materials Needed: Three-ring binder at least 1 inch or larger, loose leaf paper, and pencils/pen.

732 SPANISH II**GRADES: 10-12****PREREQUISITE:** C in Spanish I S2 or teacher approval **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. Materials Needed: Three-ring binder at least 1 inch or larger or folder, loose leaf paper or notebook, and pencils.

733 SPANISH III**GRADES: 11-12****PREREQUISITE:** C in Spanish II S2 or teacher approval **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, and command tenses. Materials Needed: Three-ring binder at least 1 inch or larger or folder, loose leaf paper or notebook, and pencils.

734 AP SPANISH LANGUAGE**GRADES: 12****PREREQUISITE:** C in Spanish III S2 or teacher approval **1 CREDIT**

AP Spanish Language is for students who wish to develop proficiency and integrate their language skills, using authentic materials and sources. Students will demonstrate their level of Spanish proficiency across three communicative modes: interpersonal, interpretive, and presentational. The course will include an intensive overall review of grammar, with a substantial increase in vocabulary as is related to the reading and conversation topics of the text. Spanish “humanities” will be studied – art, music and literary greats, as well as current events and social issues. The course prepares students for the AP test in the spring where college credit may be earned. Materials Needed: Three-ring binder at least 1 inch or larger, loose leaf paper, pencils/pens, and a Spanish/English dictionary.

World Languages

