

Piqua High School Program of Studies 2016-17

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Where Opportunity Matters!

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Grades and Credits

JUNIOR HIGH CREDIT

Junior high school students successfully completing high school courses offered as part of the junior high curriculum (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 classes 2017 and 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 Classes of 2017 and 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 Calculus AB, AP Calculus B/C, AP Chemistry, Organic Chemistry, AP Physics I, AP Physics C, AP Biology, AP Government and Politics, AP World History, AP Macroeconomics, AP Spanish Language, AP German Language, AP French Language, AP Music Theory, AP Studio Art: 2 D Design/Drawing, ECC Human Biology, ECC US History, WSU Pre-Calculus, ECC Anatomy and Physiology, ECC Medical Terminology, ECC Introduction to Health Care, ECC Microsoft Word, ECC Microsoft Excel, ECC Introduction to Business, 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.

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 special education 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.

OGT INTERVENTION

Piqua High School offers small group intensive intervention to students in need of passing any portion of the OGT. Sessions are offered prior to each test date. Students participating in at least 10 hours of summer intervention have an extra opportunity to take the OGT in June.

MENLO PARK

Menlo Park provides students with a career pathway in Health Sciences, Information Technology, and Engineering through a collaborative effort between Piqua Junior High School, Piqua High School and Upper Valley Career Center.

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 March 30 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).

Edison Community College: Any high school student with a qualifying ACT or Compass score. ACT: 18 in English and 22 in Math. Compass: 88 in Reading and a 52 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.

Educational Options

College Credit Plus Course Offerings at PHS

Math	WSU Pre-Calculus 4 credits MATH 1280 College Algebra 3 credits MATH 1350 Analytical Geometry and Trigonometry
Science	ECC Human Biology 4 credits BIO 124S ECC ECC Anatomy and Physiology 4 credits BIO125S ECC 4 credits BIO 126S ECC
Social Sciences	ECC US History 3 credits HST 121S 3 credits HST 122S
Electives	ECC Medical Terminology 3 credits OSA 151S ECC ECC Introduction to Health Care 1 credit ALH 101S ECC
Business/Computers	ECC Microsoft Word 1 credit CIT 101S ECC ECC Microsoft Excel 1 credit CIT 102S ECC ECC Introduction to Business 3 credits BUS 110S ECC ECC Personal Finance 3 credits BUS 116S ECC
Physical Education	Yoga, HIIT, Weightlifting, Cardio Kickboxing, Zumba, Hip Hop Abs, Sports Agility 1 PE credit per course PED 299S ECC

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 Beaver Creek, 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 Crew: 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.

Model UN: an opportunity for students to play a part in solving world problems. You play the role of a foreign country.

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 1 credit 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: AP Macroeconomics, Economics, Finance and Banking, Accounting, Introduction to Business, ECC Introduction to Business, Personal Finance, ECC Personal Finance, CBI, Public Relations & Communications, or Career Connections.

END OF COURSE EXAMS: CLASS OF 2017

Ohio Graduation Test (OGT)

The Class of 2017 is required to pass all sections of the statewide OGT. Sections include Reading, Math, Writing, Science, and Citizenship. During the junior and senior years, it is given during the months of October and March. A June test is offered for those students participating in summer intervention.

END OF COURSE EXAMS: CLASS OF 2018 AND BEYOND

Must meet one of three testing options.

AIR

The Class of 2018 and beyond 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 studying Advanced Placement courses in biology, American history, or American government may take and substitute AP scores for end of course state exams to avoid double testing. Students may substitute grades from College Credit Plus courses for end of course state exams.

ACT or SAT

Class of 2018 and beyond may also 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 state of Ohio will pay one time for all 11th grades students in the class of 2018 and beyond to take the exam free of charge.

Job Skills Assessment

Class of 2018 and beyond can 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 state of Ohio will pay one time for students to 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.

PLAN: The PLAN 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.

PSAT/NMSQT: Preliminary Scholastic Assessment Test/National Merit Scholarship Qualifying Test. The test serves a dual purpose for juniors. Not only will the test be good "practice" for taking the SAT, but their test scores will determine eligibility for the National Merit Scholarship competition. All Pre-AP English 9th and 10th graders will take the test for practice only. All English 11 CP and AP English 11 will take the test and compete for scholarship money.

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 January 1 of their senior year. Colleges have priority deadlines. Complete the FAFSA by the deadline. Financial aid meetings are offered during November parent teacher conferences. Edison offers College Goal Sunday in February to help you complete your FAFSA.

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 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 (860). 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 DAY

Piqua High School offers a college and career day for all grade levels. Freshmen are able to visit business people from a range of career clusters. Sophomores take their PLAN 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

Environmental Science

Ecology/Genetics

Organic Chemistry

Microsoft Word

Microsoft Excel

Small Business Ownership

Upper Valley Career Center Offerings

Ag and Power Technologies

Environmental Occupations

Horticulture and Landscape Management

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
Communications and Public Relations
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

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 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 and Fast Track
Medical Office Support, Certificate
Medical Office Support, Certificate
Office Documentation Specialist, Certificate
Basic Secretarial Skills, Fast Track
Medical Biller, Fast Track
Medical Secretary, Fast Track
Medical Transcription, Fast Track
Office Automation, Fast Track

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

Leadership Development

Construction Technology

Textiles and Interior Design

Upper Valley Career Center Offerings

Building and Grounds Maintenance

Carpentry

Electrical Trades

HVAC/R

Edison Community College Offerings

Equipment Maintenance Technology, AAS

HVAC/R, certificate

Mobile Powered Equipment, 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

Leadership Development

Communications and Public Relations

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
Research and Development
Robotics CIM
Environmental Science
Microsoft Word and Excel
Sociology
AP Calculus
AP Statistics
Engineering Design
Leadership Development
Ecology/Genetics
Computer Programming

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
Electronics Networking, certificate and fast track
Renewable Energy Technology, certificate
Basic Electricity, fast track
Factory Automation, Fast track
Industrial Electrical 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
 AP Calculus AB & BC
 Microsoft Word and Excel
 Physics
 AP Physics
 Engineering Design
 Economics
 AP Macroeconomics
 Exploring Technology
 Chemistry/Pre AP Chemistry
 AP Chemistry
 Computer Programming
 Research and Development
 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
 AP Calculus AB & BC
 Computer Programming
 Research and Development
 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
 AP Calculus AB & BC
 Engineering Design
 Computer Programming
 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

AP Macroeconomics

AP Calculus

AP Statistics

Leadership Development

Communications and Public Relations

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

AP Macroeconomics

World Language

Minority Studies

Psychology

Sociology

AP World Studies

AP Statistics

ECC US History

Current Events

Leadership Development

Communication and Public Relations

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*
- *Medial 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
Ecology/Genetics
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 Information Management
Medical Technologies
Exercise Science

Edison Community College Offerings

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

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 Technologies

Upper Valley Career Center
 Medical Technologies

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 Information Management

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 Technologies

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

Leadership Development

Communication and Public Relations

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

Leadership Development

Communication and Public Relations

Upper Valley Career Center Offerings

Cosmetology

Edison Community College Offerings

Social Services, AAS

Psychology, AA

Philosophy, SS

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

Computer Programming

AP Calculus

AP Statistics

Media I & II

Leadership Development

Digital Media Marketing

Upper Valley Career Center Offerings

Computer Information Technologies

Interactive Media

Edison Community College Offerings

Business Systems Option, AAB and certificate

Computer Games and Simulation Programming, 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
AP Calculus AB & BC
Physics
AP Physics
Engineering Design
Media I & II
Digital Media Marketing
Computer Programming
Intro to Marketing

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

Leadership Development

Communication and Public Relations

Edison Community College Offerings

Criminal Justice (computer forensics option), AAS and 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

Computer Programming

Engineering Design

Research and Development

Robotics CIM

Upper Valley Career Center Offerings

Electronics

Manufacturing and Machining Technologies

Welding Technologies

Edison Community College Offerings

Industrial Management, AAS

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

AP Macroeconomics

Personal Finance

Digital Media Marketing

Leadership Development

Communication and Public Relations

Edison Community College Offerings

Business Management, Marketing Option, AAB and certificate

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

Leadership Development

Engineering Design

Robotics CIM

Research and Development

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

PREREQUISITE: None

**GRADES: 9
1 CREDIT**

This class is for students wanting to pursue an education at the UVCC or gain employment after graduating. Students will work on mastering active reading skills and successfully using the writing process. Students will read at least one assigned novel and complete independent reading assignments. The NCAA does not accept this course. Materials Needed: Three-ring binder, tab dividers, loose leaf paper, blue or black pens/pencil, and highlighter.

112 ENGLISH 9 COLLEGE PREP

PREREQUISITE: Passing English 8

**GRADES: 9
1 CREDIT**

This course is intended for those students who plan to attend college after high school. 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

PREREQUISITE: B English 8, Accelerated or Advanced on AIR

**GRADES: 9
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. Students enrolled in Pre-AP English 9 are expected to take the PSAT test to prepare them for the SAT. Materials Needed: Three-ring binder, tab dividers (5), loose leaf paper, blue or black pens/pencil, and highlighter.

121 ENGLISH 10

PREREQUISITE: English 9

**GRADES: 10
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. Students will continue to receive instruction enabling them to successfully pass and complete the Reading and Writing portions of the Ohio Graduation Test. 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. Students enrolled in Pre-AP English 10 are expected to take the PSAT test to prepare them for the SAT. 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. Students enrolled in College Prep English 11 are expected to take the PSAT and should take the ACT in the spring. 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. British literature will be the focus of reading. Novels, plays, and films will be incorporated into the curriculum. There is an emphasis on reading process skills and opportunity for literary analysis. Writing will focus on a variety of purposes and audiences. 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. Students will read selections from British literature as they study British history. An independent, substantial, literary-based research project will be required of all students. 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 I

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.

157 FILM AS LITERATURE II

GRADES: 10-12

PREREQUISITE: Film as Literature I

½ CREDIT

This course will build on the skills developed in Film as Literature I with continued critical analysis of both film and print texts. The heart of the class is discussion and the exchange of ideas/insights based on the film and print texts. Students will develop skills in speaking, listening, supporting ideas with specific evidence from the text, and making thematic connections between genres. Writing will be based on both film and print texts. Students should have excellent attendance as it is difficult to duplicate the class experience. Materials Needed: Folder.

158 PUBLIC RELATIONS & COMMUNICATIONS

GRADES: 10-12

PREREQUISITE: Application and teacher approval

1 CREDIT

This class is designed to prepare students for the career world and effectively communicating throughout different mediums through the successful planning and execution of Piqua High School's Dance Marathon. Students will learn social media, email, phone, letter, and grant writing etiquette; as well as promotional communication skills through video creation, interviewing, public speaking, and marketing techniques. Students will also gain a working knowledge of tax exemptions, non-profit organizations, and competitors while learning how to manage budgets, operating costs, and purchase orders. This is elective credit only. Materials Needed: Folder, notebook, pens, and pencils.

English

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 both math credits, thus allowing them to move on to Geometry. 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, binder, 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.

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:** C or better Geometry or Pre-Algebra 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:** Geometry, A/B in Algebra or teacher approval**1 CREDIT**

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

342 FUNCTIONS AND ANALYSIS**GRADES: 10-12****PREREQUISITE:** C or lower in Algebra II**1 CREDIT**

This course is designed for those students that had difficulty at the Algebra II level. Students who have received credit in Pre-Calculus cannot take this course. This course is designed for those students that had difficulty at the Algebra II level and are not ready for Pre-Calculus. The course is designed to help the student relearn and/or reinforce the skills of Algebra that are necessary for the foundations of Pre-Calculus. The students will also study trigonometry, modeling and graphical analysis. Materials Needed: A TI-84 Plus calculator, notebook 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.

Math

344 WSU PRE-CALCULUS

GRADES: 10-12

PREREQUISITE: Algebra II, Geometry, meet WSU CCP requirements

2.3 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 AP CALCULUS AB

GRADES: 11-12

PREREQUISITE: Pre-Calculus

1 CREDIT

Advanced Placement Calculus has three objectives. First, it is designed to both utilize and expand upon the algebraic and trigonometric concepts learned in Pre-Calculus and previous math courses. Second, it is to introduce the student to a rigorous study of both differential and integral calculus. Third, the objective of the course is to prepare students for the AP exam in May, which can qualify the student to receive college credit. Materials Needed: A TI-84 Plus calculator, notebook paper, and pencil.

352 AP CALCULUS BC**PREREQUISITE:** Calculus AB**GRADES: 12****1 CREDIT**

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 two semesters of college calculus credit for major freshman physics. Since the exam may replace college Calculus I and II, the class itself will be taught on a rigorous and fast-paced level and should be taken by students planning to pursue a career in the mathematical sciences. Topics include limit calculus, differential calculus, integral calculus, infinite series and sequences, differential equations, and polar/parametric calculus. Materials Needed: TI-84 Plus calculator is required plus a workbook fee.

353 FINANCE & BANKING**PREREQUISITE:** None**GRADES: 12****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.

Math

Science

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). If sophomores want to double up Chemistry and Physics, they must currently be enrolled in Pre-Calculus. 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 class will be taught in semesters and will involve a single class period five days a week. The first semester will focus on the basic chemistry topics such as physical/chemical properties, atomic theory, atomic structure, bonding, law of conservation, and nuclear chemistry. The second semester will focus on the basic physics topics such as reference point of view, motion, Newton's Laws, energy, and the transfer of energy. 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 Science teacher approval

1 CREDIT

Pre-AP Biology is an advanced college prep level course and is designed to prepare the student for AP Biology. The course is yearlong and will meet five periods a week. 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.

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

432 PHYSICS**GRADES: 10-12****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. The course is a yearlong course and will meet five periods a week. 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.

433 ECOLOGY/GENETICS**GRADES: 10-12****PREREQUISITE:** Biology**1 CREDIT**

This class is an advanced Biology class in which major topics of biology will be studied as a unified system. The class will be generally split between two major fields of biology: ecology and genetics. The ecology portion of the class will allow students the opportunity to be engaged in the macro and micro systems of the environment. The genetics portion of the class will allow students the opportunity to study the latest developments in genetics in the context of detailed biological systems with an emphasis on human genetics. Students should expect a variety of complex lab opportunities including field work (outside). Materials Needed: Notebook and old shoes.

431 ENVIRONMENTAL SCIENCE**GRADES: 11-12****PREREQUISITE:** Physical Science & Biology**1 CREDIT**

This class will cover topics involving the environment and how humans and the environment interact. Some prior exposure to topics in physical and life science will be important. There will be some simple math skills required as well. Topics covered include water and water resources, land and land management, biomes, earth processes, populations, biodiversity, atmosphere, energy, waste, and waste management. The school recycling program is a requirement of the class. It is 1/4 of the grade each quarter. Materials Needed: Notebook.

Science

458 ECC BIO 124 HUMAN BIOLOGY

GRADES: 11-12

PREREQUISITE: Bio, meet Edison's CCP requirements

1.3 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.

459 ECC ANATOMY AND PHYSIOLOGY

GRADES: 11-12

PREREQUISITE: Bio, Chem, meet Edison's CCP requirements

2.6 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.

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

.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.

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.

452 AP CHEMISTRY

GRADES: 11-12

PREREQUISITE: Pre-AP Chemistry **2 CREDITS**

Advanced Placement Chemistry is a second year 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. Since the exam may replace college freshman chemistry, the class itself is taught on a college freshman level. 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.

453 AP PHYSICS I

GRADES: 11-12

PREREQUISITE: Pre-AP Chem, Physics, & Pre-calculus **1 CREDIT**

Advanced Placement Physics I is a second year ALGEBRA-BASED physics course covering more difficult material and in greater depth than first year physics. 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. Since the exam may replace college freshman physics, the class itself is taught on a college freshman level. More emphasis is placed on mathematical problem solving and critical thinking. Topics include forces, motion, energy, momentum, rotation, gravitation and oscillation, electrostatics, waves, and sound mechanics. Materials Needed: A graphing calculator is required and lab fee. Three-part summer assignment is required.

454 ORGANIC CHEMISTRY

GRADES: 12

PREREQUISITE: Chemistry **1 CREDIT**

Organic Chemistry is an advanced chemistry course designed for students who are interested in the sciences. The topics to be covered will be chemistry within living organisms. Review of acids, bases, and bonding. Survey of organic chemistry and biochemistry. Solutions, important types of organic molecules and selected reactions, structures, functions of carbohydrates, proteins, lipids, and nucleic acids. Materials Needed: 1" three-ring binder, scientific calculator, pens, pencils, and paper.

Science

455 AP PHYSICS C

GRADES: 12

PREREQUISITE: Pre-AP Chem & Physics or teacher approval

2 CREDITS

COREQUISITE: AP Calc AB or AP Calc BC & CP or AP Eng 12

Advanced Placement Physics C is a second year CALCULUS-BASED physics course covering more difficult material and in greater mathematical depth than first-year physics. The course combines a year-long credit of mechanics and a year-long credit of electricity and magnetism. 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 two semesters of college lecture and lab credit for major freshman physics. Since the exam may replace college freshman physics, the class itself is taught on a college freshman level. This course will be taught at a rigorous and fast-paced level and should be taken by students planning to pursue a career in engineering, computer science, physics, or a related field. Topics include forces, Newtonian motion, energy, circuits, electric and magnetic fields, electrostatics, and electromagnetism. *This course will take two periods.* Materials Needed: A graphing calculator is required and lab fee. Three part summer assignment is required.

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

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.

264 LEADERSHIP DEVELOPMENT**PREREQUISITE:** None**GRADES:** 11-12**½ CREDIT**

This course provides opportunities to study, practice, and develop group and individual leadership and organizational skills. These skills include decision-making skills, problem-solving techniques, communication skills, leadership roles, human relation skills, and understanding the need for civic responsibility. Students enrolled in the course will apply these skills in dealing with peers, school administration, and the community. This is elective credit only. Materials Needed: Folder, notebook, pens/pencils.

261 AP WORLD HISTORY**PREREQUISITE:** World Studies CP**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

262 AP MACROECONOMICS

PREREQUISITE: Economics & Algebra II

GRADES: 11-12

½ CREDIT

The course is designed to give students an intense study of macro issues and application to current economic events. Macroeconomics is the study of aggregate demand, aggregate supply, income/expenditure, and national policies dealing with fiscal and monetary policies, business cycle theory, employment theory, international market theories, and the globalization of the world economy. The course follows the AP outline and will prepare students to take advantage of AP exam opportunities. AP macroeconomics provides an excellent opportunity for the student entering the fields of business, accounting, and finance. Students will be expected to take the AP exam in May. Materials Needed: None.

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.

Art

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.

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 & 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.

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.

610 ECC 101S MICROSOFT WORD**PREREQUISITE:** Meet Edison's CCP requirements**GRADES: 9-12****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**PREREQUISITE:** None**GRADES: 9-12****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. Additionally 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. Additionally 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.

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.

Business

Family Consumer Sciences

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

553 PRINCIPLES OF FOOD
PREREQUISITE: None

GRADES: 9-10
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.

554 NUTRITION AND WELLNESS
PREREQUISITE: None

GRADES: 9-12
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.

555 CAREER AND COLLEGE READINESS
PREREQUISITE: None

GRADES: 9-12
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.

552 CHILD DEVELOPMENT
PREREQUISITE: None

GRADES: 9-12
½ CREDIT

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

550 TEXTILES AND INTERIOR DESIGN**PREREQUISITE:** None**GRADES: 9-12****½ CREDIT**

In this course students will explore a broad range of topics relating to the various aspects and career opportunities available in the field of textiles and design. The emphasis will be given to textiles project development and developing strategies to maintain the home. Additional topics will include project collaboration, design techniques and environmental sustainability. Students will supply their own sewing kit which would include: scissors, tape measure, straight pins, seam ripper, needles, and a container for supplies.

551 TEXTILE DESIGN CONSTRUCTION & MAINTENANCE**PREREQUISITE:** None**GRADES: 9-12****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.

Health and Physical Education

850 HEALTH
PREREQUISITE: None

GRADES: 9-10
½ CREDIT

Topics covered will include nutrition, diet, fitness, drugs, alcohol and tobacco, drug abuse prevention, mental disorders, suicide, sexually transmitted diseases, conflict management, and disease prevention and control. Materials Needed: Three-ring binder, loose-leaf paper, 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 ECC WEIGHT LIFTING
PREREQUISITE: None

GRADES: 10-12
¼ CREDIT

This course is offered as an option for one of the student's two required courses. This course is designed to enhance the skill levels of varsity athletes both in and out of season. The class is also open to other students, and they are required to meet with the instructor prior to enrollment. The quarter-long class focuses on total body development, speed training, and flexibility. The class is designed to mirror the varsity sport seasons. The work-outs will be computer generated and results will be monitored as a grade determinate. The course is open to both males and females and may be taken more than once for additional elective credit. Materials Needed: None

857 ECC CARDIO KICKBOXING
PREREQUISITE: None

GRADES: 9-12
¼ CREDIT

Traditional Kickboxing moves and boot camp drills then end with a core workout to strengthen your midsection. Students will earn 1 college credit for participating in this course. Materials Needed: Change of clothes

858 ECC SPORTS AGILITY
PREREQUISITE: None

GRADES: 9-12
¼ CREDIT

Participate in fun and challenging exercises emphasizing strength, coordination, core stability, balance, and cardiovascular endurance geared towards sports and agility training. Hurdles, ropes, agility ladder, and bosu ball will be used to increase balance and coordination. Students will earn 1 college credit for participating in this course. Materials Needed: Change of clothes

859 ECC HIP HOP ABS**GRADES: 9-12****PREREQUISITE: None****¼ CREDIT**

A fun cardio workout utilizing the latest hip hop dance moves. No dance experience necessary. Students will earn 1 college credit for participating in this course. Materials Needed: Change of clothes

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

Body conditioning combining flexibility, strengthening & balancing into one energizing workout. Students will earn 1 college credit for participating in this course. Materials Needed: Change of clothes

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

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 1 college credit for participating in this course. Materials Needed: Change of clothes

862 ECC HIGH INTENSITY INTERVAL TRAINING**GRADES: 9-12****PREREQUISITE: None****¼ CREDIT**

An exercise strategy intended to improve performance with short training sessions. HIIT is a form of cardio which is beneficial to burn fat in a short and intense workout. Students will earn 1 college credit for participating in this course. Materials Needed: Change of clothes

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.

809 JAZZ BAND**PREREQUISITE:** Audition**GRADES: 9-12****1 CREDIT**

Jazz Band is a group that plays a variety of jazz styles including rock, swing, and Latin. Performances are in the winter and spring.

Materials Needed: None.

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

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. Materials Needed: None.

804 MARCHING BAND**PREREQUISITE:** Instructor approval**GRADES: 9-12****½ CREDIT**

The "Pride of Piqua" Marching Band is a nine-week class that meets during the last period of the school day. The marching band holds rehearsal during the summer months and after school during the football season. The "Pride of Piqua" is a performance-based group and performs at all football games, several contests, parades, festivals, and community events from August to November. Accessory fees and a commitment to a public performance schedule is mandatory for membership. Music performed by the ensemble includes: pop, rock, jazz, Broadway show tunes and classical. Membership in the marching band is open to any Piqua High School student with prior band instrument experience. However, new students are encouraged to join the

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

band and should contact the director for information. Materials Needed: None
An auxiliary unit mainly concerned with the visual aspect of marching band through the use of flags and movement. This course will be offered after school.

806 MUSIC APPRECIATION**PREREQUISITE:** Instructor approval**GRADES: 10-12****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.

Music

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.

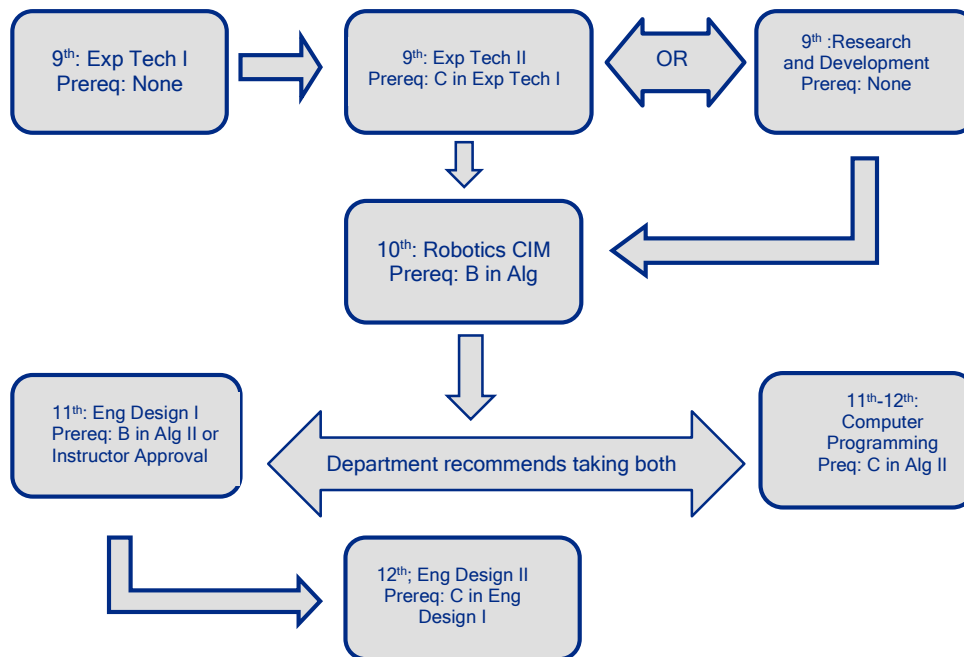
808 AP MUSIC THEORY

GRADES: 11-12

PREREQUISITE: 2 years in a performing ensemble at PHS

1 CREDIT

High School or equivalent. Completion of Introduction to Music Theory course with a final grade of "B" or higher, and instructor recommendation. AP Music Theory is offered to serious music students who are interested in using the knowledge of how music is composed and structured as means to become a better musician. The course is designed to follow the typical first year music theory and ear training curriculum at a four year college and to prepare students to take the AP Music Theory examination. **Materials Needed:** 2" three-ring binder, #2 mechanical pencils (no pen), a separate gum eraser, and a 1GB flash drive.



650 EXPLORING TECHNOLOGY I

GRADES: 9

PREREQUISITE: None

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

GRADES: 9

PREREQUISITE: C in Ex Tech I and instructor approval

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.

652 RESEARCH & DEVELOPMENT

GRADES: 9

PREREQUISITE: None

½ CREDIT

Research and Development is an introductory course for college prep students interested in careers in the technology and engineering fields. This project based course will teach students about the Engineering Design Process through application of science, technology, engineering and mathematics. *Students cannot be enrolled in Exploring Tech I or II and R & D.* Materials Needed: Notebook, folder, and pens/pencils.

Pre-Engineering

653 ROBOTICS CIM

PREREQUISITE: B in Algebra I 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.

654 ENGINEERING DESIGN I

PREREQUISITE: B in Algebra II and Instructor approval

GRADES: 11-12
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

PREREQUISITE: C in Eng Design I and Instructor approval

GRADES: 12
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.

656 COMPUTER PROGRAMMING

PREREQ: C in Algebra II and Instructor approval

GRADES: 11-12
½ CREDIT

This course introduces students to computer science with fundamental topics that include problem solving, design strategies and methodologies, organization of data (data structures), approaches to processing data (algorithms), analysis of potential solutions, and the ethical and social implications of computing. The course emphasizes object-oriented and imperative problem solving and design using the Java language. These techniques represent proven approaches for developing solutions that can scale up from small, simple problems to large, complex problems.

657 AP COMPUTER SCIENCE

PREREQ: Computer Programming and Instructor approval

GRADES: 11-12
½ 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.

900A MENTORING S1**PREREQUISITE:** Instructor approval**GRADES: 9-12****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**PREREQUISITE:** Instructor approval**GRADES: 9-12****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.

901 CAREER CONNECTIONS**PREREQUISITE:** Teacher or counselor approval**GRADES: 9-10****1 CREDIT**

Career Connections is a class for students who are interested in preparing for future employment opportunities. Students will be introduced to job seeking skills, career exploration, life skills, and work ethics. This program is under the supervision of the Upper Valley Career Center. Materials Needed: (1) 2 inch three-ring binder with pockets, (1 set) 5 tab binder dividers, (1) pack of #2 pencils, and (2) yellow highlighters.

904A EMPLOYABILITY SKILLS A**PREREQUISITE:** Must be on an IEP**GRADES: 9-10****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**PREREQUISITE:** Must be on an IEP**GRADES: 9-10****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 17-19 years of age, or in the 11th & 12th grade and are interested in working during high school. Enrolled students will attend school periods 1-5A with all academics offered online through Odysseyware. Students will also be required to work a minimum of 15 hours per week and must have coordinator approved transportation to their work site. Students benefit by being on the job daily and develop good work habits. This program is under the supervision of the Upper Valley Career Center. Materials Needed: (1) 1 1/2 inch three-ring binder with pockets; (1) 3 subject paper notebook and (1 set) 5 tab binder dividers. Students under the age of 18 will be required to obtain a work permit once employed.

701 CHINESE 1

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 Conti* 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: None

1 CREDIT

This course will introduce students to the language and culture of Deaf Americans. Students will learn basic vocabulary and grammar structures with a heavy emphasis on expressive and receptive language use. Information about Deaf Culture and Community will be introduced through authentic and non-authentic materials. By the end of ASL I students will have the ability to converse in basic ASL, have basic narrative and questioning skills, use tense and aspect markers, and be able to identify and understand the use of classifiers/depicting verbs. 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: 10-12

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, past, and subjunctive. Materials Needed: Three-ring binder at least 1 inch or larger, loose leaf paper, pencils/pens, a Spanish/English dictionary.

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, subjunctive, future/conditional, and perfect tenses. Materials Needed: Three-ring binder at least 1 inch or larger, loose leaf paper, pencils/pens, and Spanish/English dictionary.

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

