2022-23

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The purpose of the Guidance Program is to help individual students throughout the school year. Since the school is preparing students to take their place in the world of work, or continued education, one major function is to assist students in selecting courses which are best suited to their needs, abilities, and interests. A computer-based guidance information program is also available in our Career Guidance Center. Information is available in the Guidance Office regarding various occupations, part-time and summer jobs, as well as the armed services.

School counselors assist students with course selections and vocational/educational planning. Counselors help students improve their study habits and counsel them regarding personal problems.

Students who need to see their school counselors must make appointments through the guidance secretary. This should not be done during class time unless it is an emergency.

## PROMOTION AND GRADUATION

All students MUST select a career path each year and schedule prescribed courses within the program. Students must carry a minimum of 7 credits per year. Students are required to pass 22.5 credits in order to graduate.
The following courses are required:


## WEIGHTED GRADING

The Western Wayne High School has chosen to reward students for taking more challenging courses.
Students who take the following courses will receive a $5 \%$ or $3 \%$ weighted grade.

Art Department
** 963 - Advanced Studio Art

## English Department

**130A- English 9 Honors
**140A- American Lit. Honors
**155A- Multi-Cult. Lit. Honors
**166A- British Lit. Honors
*156- AP Eng. Lang. \& Comp.
*165- AP Eng. Lit. \& Comp.
Foreign Language Department
*365-AP Spanish Lang. \& Cult.

* $=5 \%$ Weight
** $=\mathbf{3 \%}$ Weight

Mathematics Department
**430- Geometry Honors
**440- Algebra II Honors
**453- Statistics
**450A- Pre-Calculus Honors
**460- Calculus
*465- AP Calculus
*970- AP Computer Sci. Prin.
*971- AP Computer Sci. A

## Social Studies Department

**230A- Amer. Cults. I Honors
*240A- AP U.S. History
*255- AP World History
*265- AP U.S. Govt. \& Politics

## Science Department

**541A- Inq. Bio.w/Lab Honors
**551A- Chem. w/Lab Honors
**556A- Anat. \& Phys. Honors
*563- AP Biology w/Lab
*565- AP Chemistry w/Lab
*570- AP Physics1:Alg-Based
*571- AP Physics2:Alg-Based

## Technology Department

**754- Auto Tech. III
**772- Manuf. Tech. III

Note: The grade that is represented on the student's report card DOES NOT INCLUDE the attached weight of $5 \%$ or $3 \%$. The computer program that runs our grading system will automatically add the $5 \%$ or $3 \%$ and calculate the WEIGHTED GRADE into the student's cumulative grade point average. EXAMPLE: A student who earns a " $97 \%$ " in AP Government would have an additional 4.85 points (which is $5 \%$ of the grade) added to his or her quarter average. Therefore, a grade of $101.85 \%$ would be calculated into the cumulative grade point average.

## Keystone Exam/State Graduation Requirements

## Western Wayne School District (WWSD)

The purpose of this document is to describe the pathways available for students to meet Keystone Exam/Pennsylvania state graduation requirements as outlined in Act 158 of 2018 while adhering to federal participation requirements outlined in the amended Elementary and Secondary Education Act of 1965. These pathways apply to the graduating Class of 2023 and beyond.

Act 136 of 2020 delays the implementation of these requirements to the Class of 2023. Locally, Western Wayne School District (WWSD) still requires students to demonstrate proficiency on Keystone Exams through test scores or District established remediation and support processes. However, WWSD believes that the Act 158 pathways provide meaningful ways to meet state graduation requirements and will utilize them to complement our current process for the Class of 2022.

## Typical Sequence to Meet Keystone Exam/State Graduation Requirements

Based on the typical course sequencing of high school courses, WWSD will utilize the following process to meet federal participation requirements and ensure access to all options for students to meet state graduation requirements.

1] Students will participate in Keystone Exams at the conclusion of trigger courses for the Algebra I, Biology and Literature Keystone Exams.

2] Students who pass their Algebra I course but are not proficient on the Algebra I Keystone Exam will retake the exam during the winter wave of testing while taking their Algebra II course.

3] At the conclusion of their sophomore year and participation in all three Keystone Exams...students, parents, school counselors and administration will determine the best course of action for individual students to meet the state graduation requirements based on five possible pathways.

## Keystone Exam/State Graduation Requirements outlined in Act 158

Described below are the five pathways for meeting state graduation requirements as outlined in Act 158 . This information is also located in the following links:

Act 158: PA State Graduation Requirements

PA Statewide High School Graduation Requirements

Act 158 Pathway Graphic

Pathways to Graduation Guide to Meeting Statewide Requirements for High School Graduation

Keystone Exam State Graduation Pathways

1] Keystone Proficiency Pathway - based on Keystone Exam Scores.
All of the following apply to a student:
$\square$ Proficient or Advanced on the Algebra Keystone Exam

- Proficient or Advanced on the Biology Keystone Exam
$\square$ Proficient or Advanced on the Literature Keystone Exam

2] Keystone Composite Pathway - based on Keystone Exam Scores.
All of the following apply to a student:
$\square$ Composite score of 4452 or higher on all 3 Keystone Exams
$\square$ Proficient or Advanced on at least one of the Keystone Exams
$\square$ Basic, Proficient or Advanced on all 3 of the Keystone Exams
3] Alternate Assessment Pathway - provides options to demonstrate proficiency through tests such as the SAT, PSAT, ASVAB, AP Exams, IB Exams, college level coursework, PA Dept. of Labor and Industry approved pre-apprenticeship programs, or acceptance into a 4-year non-profit institution of higher education.

All of the following apply to a student:
$\square$ Receive a passing grade in the academic course associated with the Keystone Exam for all subjects where the student did not earn proficiency on the Exam.
$\square$ Attain the established score on an approved alternate assessment for each subject where the student did not earn proficiency.
OR
$\square$ Successfully complete a concurrent enrollment course (dual enrollment \& college in the high school) in an academic content area associated with each Keystone Exam in which the student did not achieve proficiency.
OR

- Successfully complete a pre-apprenticeship program that is registered with the Director Apprenticeship and Training Office, PA Dept. Of Labor and Industry. OR
$\square$ Be accepted in an accredited 4-year nonprofit institution of higher education and have evidence of the ability to enroll in college-level coursework.

| Established Scores for the Alternative Assessment Pathway |  |
| :--- | :--- |
| SAT | 1010 |
| PSAT | 970 |
| ACT | 21 |
| AP Exam | 3 |
| IB (International Baccalaureate) Exam | 4 |
| ASVAB (Armed Services <br> Vocational Aptitude Battery) | minimum score to gain admittance to a <br> branch of the armed services in the year the <br> student graduates (31 is current accepted <br> score) |

## Keystone Exam equivalent AP Courses <br> (score of 3 for Alternative Assessment Pathway)

| Algebra Equivalent | Biology Equivalent | Literature Equivalent |
| :--- | :--- | :--- |
| AP Calculus AB | AP Biology | AP English Language <br> and Composition |
| AP Calculus BC | AP Chemistry | AP English Literature <br> and Composition |
| AP Computer Science A | AP Environmental Science |  |
| AP Computer Science <br> Principles | AP Physics 1: Algebra-Based |  |
| AP Statistics | AP Physics 2: Algebra-Based |  |
| AP Physics 1: Algebra-Based | AP Physics C: Electricity <br> and Magnetism |  |


| AP Physics 2: Algebra-Based | AP Physics C: Mechanics |  |
| :--- | :--- | :--- |
| AP Physics C: Electricity <br> and Magnetism |  |  |
| AP Physics C: Mechanics |  |  |
| AP Chemistry |  |  |

## 4] Career and Technical Education Pathway - provides an option for students who earned an industrybased competency certification, primarily through full-day CTC programs.

## All of the following apply to a student:

Receive a passing grade in the academic course associated with the Keystone Exam for all subjects where the student did not earn proficiency on the Exam.
$\square$ Attain an industry-based competency certification related to the student's CTE program of study.

## OR

$\square$ Demonstrate a high likelihood of success on an approved industry-based competency assessment or readiness for continued meaningful engagement in the student's CTE program of study.

## 5] Evidence-Based Pathway - provides an option for students to provide multiple pieces of career readiness evidence compiled from their high school career.

All of the following apply to a student:
$\square$ Receive a passing grade in the academic course associated with the Keystone Exam for all subjects where the student did not earn proficiency on the Exam.
$\square$ At least one piece of evidence from the following:
a) Attainment of an established score on an alternative assessment
b) Acceptance to an institution of higher education, other than a

4 -year accredited non-profit institution of higher education
c) Attainment of an industry recognized credential
d) Successful completion of concurrent enrollment or post-secondary (dual enrollment \& college in the high school) course
$\square$ At least two pieces of evidence from the following:
a) Service-Learning Project completion
b) Proficient or Advanced on a Keystone Exam
c) Letter guaranteeing full-time employment
d) Internship or Cooperative Education Program
e) Compliance with NCAA's core courses for college-bound athletes by having minimum GPA of 2.0 in approved NCAA core courses

| Established Scores for the Evidence-Based Pathway |  |
| :--- | :--- |
| ACT WorkKeys | Silver Level |
| SAT Subject Test | 630 |
| AP Exam | 3 |
| IB (International Baccalaureate) Exam | 3 |

## Students with Disabilities

A student with a disability who satisfactorily completes a special education program developed by an individualized education program (IEP) team under the Individuals with Disabilities Education Act (IDEA) and 22 Pa . Code Ch. 14 (relating to special education services and programs) that does not otherwise meet the requirements of this section shall be granted and issued a regular high school diploma by the student's school entity.

## Exceptions

A chief school administrator may grant a waiver of the requirements for demonstrations of proficiency on the Keystone Exams or alternative graduation requirements for a student in grade 12 or to accommodate a student who experiences extenuating circumstances (e.g., serious illness, death in the student's immediate family, family emergency, frequent school transfers, or transfer from out-of-state in grade 12).

Each student granted a waiver under this subsection shall complete locally established, grade-based requirements for academic content areas associated with each Keystone Exam.

## Act 158 Pathway Graphic

## Keystone Proficiency Pathway

Proficient or Advanced in Algebra I Proficient or Advanced in Biology Proficient or Advanced in Literature

## Keystone Composite Pathway

At least 1 Keystone score is Proficient or Advanced

No score is Below Basic


## CTE Concentrator, Alternative Assessment, and Evidence Based Pathways

Meet local grade-based requirements for Keystone content in which student is less than Proficient

Satisfy additional requirements from ONE of the following...

Career \& Technical Education

- 1 Piece of Evidence
- Industry-based competency certification
-Likelihood of industry-based competency assessment success
- Readiness for continued engagement in Career and Technical Education (CTE) Concentrator program of study


## Alternative Assessment

- 1 Piece of Evidence
- Attainment of one alternative assessment score or better: ACT
(21), ASVAB AFQT (31),

PSAT/NMSQT (970), or SAT (1010)

- Attainment of Gold Level or better on ACT WorkKeys
- Attainment of 3 or better on AP Exam(s) related to each Keystone content area in which less than Proficient
- Attainment of 4 or better on IB Exam(s) related to each Keystone content area in which less than Proficient
- Successful completion of concurrent course(s) related to each Keystone content area in which less than Proficient
-Successful completion of a preapprenticeship program - Acceptance into 4yr Institution of Higher Education (IHE) for college-level coursework


## Evidence Based

- 3 Pieces of Evidence consistent $\mathbf{w} /$ student goals
ONE or more from the first seven No more than TWO from the last five
- Attainment of 630 or better on any SAT Subject Test
- Attainment of Silver Level or better on ACT WorkKeys
- Attainment of 3 or better on any AP Exam
- Attainment of 3 or better on any IB Exam
- Successful completion of any concurrent or postsecondary course
- Industry-recognized credentialization
- Acceptance into an other-than-4yr Institution of Higher Education (IHE) for college-level coursework
- Attainment of Proficient or

Advanced on any Keystone Exam

- Successful completion of a servicelearning project
- Letter guaranteeing full-time employment or military enlistment
- Completion of an internship, externship, or cooperative education program
- Compliance with NCAA Division II academic requirements


## $\mathrm{W}_{\mathrm{w}}$ ART

920 Introduction to Ceramics ..... $1 / 2$
935 Art Foundations ..... 1
940 Studio Art I ..... 1
943 Ceramics I ..... $1 / 2$
944 Ceramics II ..... $1 / 2$
945 Watercolor Painting ..... $.1 / 2$
946 Mixed Media Design ..... $1 / 2$
950 Studio Art II ..... 1
955 Digital Photography I ..... $1 / 2$
956 Digital Photography II ..... $1 / 2$
961 Ceramics III ..... $1 / 2$
962 Studio Art III ..... 1
963 Advanced Studio Art ..... 2
W ${ }_{\text {W BSINESS }}$
640 Computer Apps.-Microsoft Word/Keyboarding ..... 1
642 Introduction to Business ..... 1
643 Business and Personal Law ..... 1
648 Computer Apps.- Microsoft PowerPoint/Excel ..... 1
651 Accounting I ..... 1
654 Entrepreneurship ..... 1
655 Marketing ..... 1
657 Sports \& Entertainment Marketing ..... $1 / 2$
659 Fashion Marketing ..... $1 / 2$
661 Accounting II ..... 1
664 Business Communications \& Procedures ..... 1

## $\mathrm{w}_{\mathrm{w}}$ ENGLISH

130 English 9 ..... 1
130A English 9 Honors ..... 1
140 American Literature ..... 1
140A American Literature Honors ..... 1
144 English as a Second Language ..... 1
155 Multicultural Literature ..... 1
155A Multicultural Literature Honors ..... 1
156 AP English Language \& Composition ..... 1
165 AP English Literature \& Composition ..... 1
166. British Literature in the Modern World ..... 1
166A British Literature Honors ..... 1
980 SAT Prep Writing and Critical Reading ..... $1 / 2$
$\mathrm{w}_{\mathrm{w}}$ FAMILY \& CONSUMER SCIENCE
821 Nutrition \& Wellness ..... 1
825 Career \& Consumer Skills ..... $1 / 2$
833 Introduction to Sewing ..... 1
835 Basic Foods ..... 1
840 Culinary Pastry Arts ..... 1
843 Textile and Design ..... 1
844 Child Development ..... 1
851 Gourmet Foods ..... 1
852 Family and Consumer Science Lab Technician ..... $1 / 2$
855 Early Childhood Education I ..... 1
861 Advanced Cooking ..... 1
862 Family Development ..... 1
863 Fashion Exploration ..... 1
864 Creative Construction ..... 1
865 Early Childhood Education II. ..... 3
$\mathrm{w}_{\mathrm{w}}$ FOREIGN LANGUAGE
330French I.1
331 Spanish I ..... 1
332 German I ..... 1
333 German II ..... 1
340 French II ..... 1
341 Spanish II ..... 1
351 Spanish III ..... 1
361 Spanish IV ..... 1
365 AP Spanish Language \& Culture ..... 1

## $\mathrm{w}_{\mathrm{w}}$ MATHEMATICS

430

Geometry Honors ..... 1

431

Algebra I ..... 1
432 Algebra (A) ..... 1
440 Algebra II Honors ..... 1
441 Geometry ..... 1
442 Algebra (B) ..... 1
443 Applied Geometry ..... 1
450 Pre-Calculus ..... 1
450A Pre-Calculus Honors ..... 1
451 Algebra II ..... 1
453 Statistics ..... 1
460 Calculus ..... 1
465 AP Calculus ..... 1
970 AP Computer Science Principles ..... 1
972 AP Computer Science A ..... 1
975 Computer Programming I ..... 1
976 Computer Programming II ..... 1
977 Computer Programming III ..... 1
978 Computer Programming IV ..... 1
981 SAT Prep Math ..... $1 / 2$
985 Keystone Algebra ..... $1 / 2$
$\mathrm{w}_{\mathrm{w}}$ MUSIC
925 Band ..... 1
926 Chorus ..... 1
927 Chorus ..... $1 / 2$
928 Theater Arts ..... $1 / 2$
931 Stage Crew ..... $1 / 2$
971 Music Theory I ..... $1 / 2$
974 Music Theory II ..... $1 / 2$
979 Music Theory III ..... $1 / 2$

## $\mathbf{w}_{\mathrm{w}}$ PHYSICAL EDUCATION AND HEALTH

40 Boys 9 Gym ..... $1 / 2$
41 Girls 9 Gym ..... $1 / 2$
40 Boys 10 Gym ..... $1 / 2$
41 Girls 10 Gym ..... $1 / 2$
60 Boys 11 Gym ..... $1 / 2$
61 Girls 11 Gym ..... $1 / 2$
60 Boys 12 Gym ..... $1 / 2$
61 .Girls 12 Gym ..... $1 / 2$
99 Advanced Gym ..... $1 / 2$
52 Health Education ..... $1 / 2$
$w_{w}$ SCIENCE
531 General Science 9 ..... 1
541 Inquiry Biology w/Lab ..... $11 / 2$
541A Inquiry Biology w/Lab Honors ..... $11 / 2$
542 Applied Biology w/Lab ..... 1
551 Chemistry I w/Lab ..... $11 / 2$
551A Chemistry I w/Lab Honors ..... $11 / 2$
552 Applied Chemistry w/Lab ..... 1
556 Anatomy \& Physiology w/Lab ..... 1
556A Anatomy \& Physiology w/Lab Honors ..... 1
561 Physics w/Lab ..... $11 / 2$
562 General Keystone Science ..... $1 / 2$
563 AP Biology w/Lab ..... $11 / 2$
565 AP Chemistry w/Lab ..... $11 / 2$
566 Chemistry Lab Technician ..... $1 / 2$
567 Biology Lab Technician ..... $1 / 2$
568 General Science Lab Technician ..... $1 / 2$
569 .Physics Lab Technician ..... $1 / 2$
570 AP Physics 1 - Algebra Based ..... $11 / 2$
571 AP Physics 2 - Algebra Based ..... $11 / 2$
230 American Cultures II ..... 1
230A American Cultures II Honors ..... 1
240 American Cultures III ..... 1
240A AP US History ..... 1
250 World Cultures ..... 1
255 AP World History ..... 1
260 American Government/Economics ..... 1
261 Psychology ..... $1 / 2$
265 AP United States Government \& Politics ..... 1
$\mathrm{W}_{\mathrm{W}}$ TECHNOLOGY \& ENGINEERING
720 Vehicle Maintenance ..... 1
722 Metal Technologies ..... 1
723 Visual Communications I ..... 1
724 Introduction to Automotive Technology ..... 1
730 Introduction to Manufacturing Technologies ..... 1
732 Engineering ..... 1
734 Auto Technologies I ..... 2
735 Manufacturing Technologies I ..... 2
744 Auto Technologies II ..... 2
745 Construction Trades ..... 1
754 Auto Technologies III ..... 2
771 Manufacturing Technologies II ..... 2
772 Manufacturing Technologies III ..... 2
782 Video Production ..... 1
786 Video Broadcasting ..... 2


Since our Art Department offers a variety of half-credit and full-credit courses that are designed to meet the needs and interests of all students, we encourage each student to select an art course at least once during his/her high school career.
Some courses require prerequisites. Please refer to course descriptions.

## 920

INTRODUCTION TO CERAMICS
$1 / 2$ CREDIT
This course is intended for students studying ceramics for the first time and is a comprehensive introduction to the craft of clay working. This course is primarily a studio class, which means we will spend the majority of our time involved in the creative process (making things). In order to augment creative production and discover how the creative process works, we will also be spending time learning techniques, watching demonstrations, reading, discussing, viewing PowerPoints, and critiquing our work. (No prerequisite needed. Open to freshmen and sophomores)

CERAMICS I
$1 / 2$ CREDIT
This course is intended for students who have completed a comprehensive introduction to the craft of clay working. Ceramics I is designed to enhance the skills that were previously learned in Introduction to Ceramics. This course is primarily a studio class, which means we will spend the majority of our time involved in the creative process (making things). In order to augment creative production and discover how the creative process works, we will also be spending time learning techniques, watching demonstrations, reading, discussing, viewing PowerPoints, and critiquing our work. [Prerequisite: 920-Introduction to Ceramics. Open to sophomores and juniors]

CERAMICS II
$1 / 2$ CREDIT
This course is geared to the student who is motivated to undertake very ambitious work in clay and further their understanding of ceramic art as a means of artistic expression. Ceramics II is intended as an opportunity for continued growth in art involving clay as a primary medium. This course is primarily a studio class, which means we will spend the majority of our time involved in the creative process (making things). In order to augment creative production and discover how the creative process works, we will also be spending time learning techniques, watching demonstrations, reading, discussing, viewing PowerPoints, and critiquing our work. [Prerequisites: 920-Intro to Ceramics and 943-Ceramics I. Open to juniors and seniors]

CERAMICS III
$1 / 2$ CREDIT
Ceramics Ill is for seniors who have taken 920- Introduction to Ceramics, 943 - Ceramics I, and 944- Ceramics I1. This course will build upon prior knowledge and is intended to challenge students as they dive deeper into the history of ceramics and push themselves to further develop their own artistic style. We will focus on creative expression, craftsmanship, technique, and alternative glaze application processes. [Prerequisite: 920- Introduction to Ceramics, 943- Ceramics I, and 944- Ceramics II

This course is for students who are interested in learning how to draw from life experiences. Designed for first year art students, this course will cover drawing techniques in pencil, charcoal and pastel. Students will learn how to shade using highlights and shadows and use the grid method for certain projects. Other forms of art will be studied as well. There will be sketchbook assignments and independent projects along with daily in-class projects. This course is for students who love art and want to learn more. This one-credit course is a prerequisite for all other art courses, with the exception of $\mathbf{9 2 0}$ Introduction to Ceramics. strengthen their basic drawing skills, and further challenge them with a variety of two- and three-dimensional media. Aesthetics, art appreciation and color theory will also be studied. [Prerequisite: 935-Art Foundations]

This course is open to all students who have taken $\mathbf{9 3 5}$-Art Foundations and $\mathbf{9 4 0}$-Studio Art I. The curriculum will cover various media, such as acrylic and colored pencil. The students will sharpen their skills in drawing, painting, and various mixed media techniques. This course is suited for students planning to pursue art as a career as well as students who enjoy art as a hobby. [Prerequisites: 935-Art Foundations and 940-Studio Art I]

This course is designed for students who wish to continue their study of art, but do not wish to pursue art as a career. Students will complete numerous two- and three-dimensional studio pieces while developing distinct individual styles. Emphasis will be placed on developing displays for the annual art exhibit. [Prerequisites: 935-Art Foundations, 940Studio Art I, and 950-Studio Art II]

Advanced Studio Art is a college preparation course for the gifted art student who plans to pursue art as a career. The course is designed to provide students with ample opportunities to develop their creative potential in various media, as well as their understanding of visual communication and appreciation. The course work in the first seme ster is devoted to preparing a college entrance portfolio. During the second semester, along with continued instruction in a variety of media, each student will complete numerous two-and three-dimensional studio pieces while developing distinct individual styles. Emphasis will be placed on developing senior displays for the annual art exhibit. [Prerequisites: 935-Art Foundations, $\mathbf{9 4 0 - S t u d i o}$ Art I, and 950 -Studio Art II] \{Summer work is required. Student must have a grade point average of 90 or higher in Art courses \}

This course will study various techniques in watercolor painting such as flat washes, wet on wet, blended washes, and dry brushing. The students are required to take ART FOUNDATIONS before taking this course to allow the concentration to stay primarily on painting and not on drawing skills. The projects will include landscapes, portraits, and still life paintings. [Prerequisites: 935-Art Foundations. Open to sophomores, juniors, and seniors]

This course will study various forms of Mixed Media through the use of collage material such as paper, felt, wood, plastic, and metal. This course will also emphasize the making of 3-D Design through additive and subtractive processes as an ongoing endeavor, involving the student in informed critical and creative decision making. The students will learn how to incorporate photo transfers and photo lifts into their artwork. Issues of craftsmanship as well as narrative and formal content will be addressed. Students will be encouraged to investigate and experiment the physical and aesthetic possibilities and limitations of a range of media and materials. Sculptural issues will be explored through the solution of design problems. This course will also include the study of famous mixed media artists. [Prerequisites: 935-Art Foundations. Open to sophomores, juniors, and seniors]

In this course, students will learn the basics of photography as you capture moments and create visual stories. Students will acquire a strong understanding of light as they manipulate the camera to create their imagery. Post-editing opportunities will be explored as students reach their desired photographic results. Students will walk away from this course with a comprehensive portfolio of studio work. A digital SLR camera with a lens is a requirement for this course. This is a fine art photography course so the digital SLR camera is a critical piece of equipment. Students cannot take the course simply with the use of a phone or tablet.

This intermediate level course is designed to expand the knowledge and abilities of motivated students who have completed 955-Digital Photography I. Basic photographic and post-process skills learned in 955 will be refined as students work with Adobe Lightroom and Photoshop as they develop a personal photographic vision. Each student will be challenged visually and intellectually as they explore several major photographic themes. The class includes detailed demonstrations, hands-on exercises, and constructive critiques. Students will continue adding unique photographs to their on-going portfolio. Students entering the course must have a digital camera with aperture and shutter priority. Students are also responsible for a digital storage device such as a flash drive. [Prerequisite: 955-Digital Photography I]

In today's world, technology is everywhere and affects everyone. Therefore, the business curriculum offers a variety of courses which enable students to get a job and/or to become better prepared to survive as consumers and citizens.

## 640

COMPUTER APPLICATIONS-MICROSOFT WORD/KEYBOARDING
1 CREDIT
Proper keyboarding technique has become an invaluable skill in the workforce today. In this course, students will learn touch-typing in order to improve upon their existing typing skills. This course also provides students the opportunity to learn a variety of concepts using Microsoft Word. Using Word, students will learn to format a variety of business documents as well as develop a deeper understanding of digital computer file management. With the skills students master in this course, they will become faster and more confident at the keyboard and on the computer. [Student proficiency may lead to software certification.]

This is an introductory course which allows for discovering how a business works and how it impacts life on a daily basis. Introduction to Business familiarizes students to the world of business and assists in preparing them for the economic roles of consumers, workers, and citizens. The course provides instruction in business concepts and skills students need in today's competitive environment. Business concepts such as finance, marketing, and operations and management are covered. Students will also gain valuable information and skills for the workplace.

Students will be introduced to the laws that affect their daily lives. The course will focus on criminal and civil law and the court systems that enforce the laws. Other topics to be covered include contracts, employment law, corporate law, and consumer protection. (Open to sophomores, juniors, and seniors)

This course is designed to develop proficiency in both Microsoft PowerPoint and Microsoft Excel. In the first half of the school year, students will learn how to make powerful and effective presentations though the use of basic and advanced PowerPoint applications. The second half of this course is devoted to learning the basic and advanced functions that are available in Microsoft Excel. The topics covered in this portion of the course include working with and formatting Excel worksheets, understanding functions, creating formulas, absolute cell referencing, and what-if analysis.
At the conclusion of this course, interested students will be able to take the Microsoft Specialist (MOS) certification test (Basic level). This is a test recognized internationally by employers. This course is required for all students enrolled in the Office Management sequence of the Business \& Technology career pathway. (Open to all grades)

Accounting I, as a one-year course for $10^{\text {th }}, 11^{\text {th }}$, and $12^{\text {th }}$ grade students, offers students an opportunity to learn the language of business, analyze business transactions, maintain journals and ledgers, and prepare financial reports. Students will also have the opportunity to learn about several aspects of personal financial planning. [Students may earn college credit through arrangements with Lackawanna College] (Accounting I can serve as a math credit as long as it is beyond the minimum 3 credit math requirement.)

This course seeks to prepare students to be responsible, enterprising individuals who become entrepreneurs or entrepreneurial thinkers. Students will study the attitudes and skills that characterize entrepreneurs. They will learn the enterprising skills related to creativity, initiative, problem solving, flexibility, and adaptability. This course will also provide framework for understanding the entrepreneurial process and expose the student to challenges, problems and issues faced by entrepreneurs who start new ventures. (Open to juniors and seniors)

Marketing provides an introduction to the theory and practice of marketing and explains the core functions of marketing. Topics such as economics, business and international marketing, selling, and promotion will be discussed in this course.

Sports and Entertainment Marketing is a $1 / 2$ credit business course designed to prepare students for marketing occupations. This course will focus on the two main aspects: 1) The marketing of sports and entertainment, and 2) the marketing of non-sports products and services through sports. You will discover why companies pay to be associated with a team or entertainer; how to develop ticket plans to fill seats in an arena; why targeting your marketing efforts is so important; and more. (Open to juniors and seniors)

Fashion Marketing covers the marketing curriculum using the fashion industry as the learning vehicle. Topics such as fashion cycle, fashion economics, promoting a fashion image, and technology in fashion marketing will be discussed. This course will give students a perspective on how marketing shapes the future of the fashion industry and possible career opportunities in that industry. (Open to juniors and seniors)

ACCOUNTING II
1 CREDIT
A review of the principles of accounting is followed by an emphasis on such areas as payroll systems, special journals, sales tax, uncollectible accounts, depreciation, partnerships, and corporation accounting. [Prerequisite: 651-Accounting I] (Accounting II can serve as a math credit as long as it is beyond the minimum 3 credit math requirement)

In this one-credit course for juniors and seniors, the focus will be on developing effective oral and written communication skills, as well as a focus on customer service, files, management and answering telephones properly. An integral part of the course is the career unit in which students prepare their resumes and letters of application, complete job application forms, and participate in mock interviews. Students will also complete various Internet-related projects, slide presentations, etc. These activities are aimed at preparing students for the world of work and/or postsecondary education.

## SENIOR PROJECT

## DISCLAIMER-Subject to change

To meet the Graduation Project requirements to obtain a diploma from the Western Wayne School District, students must showcase their abilities in a particular area, using their academic and creative abilities in a cross-curricular manner. Students are encouraged to complete a career-based project that will allow them to better understand the skills they may be using in the future. See your English teacher or Senior Project Coordinator for details.

The English Department offers a varied program in all areas of communication skills, with special attention to research, writing skills, and literature. Course content focuses on research and problem-solving skills. Four credits of English are required for graduation. experience various genres of classical and contemporary literature. They will complete applicable group activities and individual projects. In addition to narrative, persuasive, and expository writing, each student will be expected to write a serious, in-depth research report. The course will include reading instruction, study skills and vocabulary/grammar review as needed.

A literature-based course, English 9 Honors introduces students to various literary genres typically required by colleges. Student will read various genres of classical and contemporary literature with a strong focus on literary analysis. Students will learn and apply the research skills by completing at least one formal research paper. Writing skills will be sharpened through students' compositions. Summer reading and writing assignments are required. Enrollment will be based on teacher recommendation and the student should have earned at least a $90 \%$ in $8^{\text {th }}$ Grade Language Arts.

The course is designed to improve the students' understanding of American writers through a consideration of U.S. history and culture. Students will discuss and write about literature and display an understanding of the application of literary elements. Students will continue to develop writing process techniques and test taking skills. This course prepares students to take the Keystone exam. recommendation and the student should have earned at least a $90 \%$ in English 9. [Prerequisite: 130A-English 9 Honors or 130-English 9]. classes and English instruction, when deemed necessary by the student's entry-level skills in English. Instruction will be administered in group and individual settings at a time determined by classroom availability and time constraints. Students will be evaluated by their progress in oral and written communication, as well as progress in their content-area classes.
$\qquad$ 1 CREDIT This course is a rich mix of classic, contemporary and multicultural literature that explores a range of ideas and experiences. It presents students with opportunities to analyze and interpret written works. The process of literacy is stressed. Literary study through written and spoken responses will help students develop strong reading/writing and public speaking skills. Students will complete a career research paper or public speaking project. Students will complete the college/personal essay. (Open to juniors)

In this course designed for those college bound and set at an accelerated pace, students will analyze literary selections that explore a range of ideas and experiences. Writing skills will be sharpened through students' compositions including a career research paper. Summer reading, written analysis, and other assignments are required. This course prepares students for college and will include SAT Prep. Students will complete the college/personal essay. Enrollment will be based on teacher recommendation and the student must have earned at least a $90 \%$ in American Literature. [Prerequisite: 140-American Literature or 140A- American Literature Honors].

ADVANCED PLACEMENT ENGLISH LANGUAGE AND COMPOSITION 1 CREDIT
AP Language and Composition engages students in becoming skilled readers of prose written in a variety of periods, disciplines, and rhetorical contexts. To reflect the increasing importance of graphics and visual images in text published in print and electronic media, students will analyze how such images both relate to written texts and serve as alternative forms of texts themselves. In addition, the informed use of research materials in a researched argument paper and the ability to synthesize varied sources-to evaluate, use, and cite sources - are integral parts of the course. Students will become skilled writers who compose for a variety of purposes. Students will be expected to move beyond such programmatic responses as the five-paragraph essay, placing their emphasis on content, purpose, and audience and allowing this focus to guide the organization of their writing. They will use grammatical conventions appropriately and develop stylistic maturity in their prose. Summer reading and writing assignments are required. This course prepares students to take the national AP exam in May, which may result in college credit. [Open to juniors and seniors; recommended prerequisite: 90+ average in English courses, PSAT or SAT Reading \& Writing score of 500+, self-discipline and motivation].

ADVANCED PLACEMENT ENGLISH LITERATURE AND COMPOSITION ---------- 1 CREDIT
The AP Literature course emphasizes the study of literature from various genres (poetry, short story, novel, and drama) and periods, concentrating on works of recognized literary merit. A work's structure, style and themes, as well as literary conventions such as the use of figurative language, imagery, symbolism, and tone are studied. Frequent writing will emphasize the student's ability to understand, explain, and evaluate a literary work. Readings will include works by British and American writers from the sixteenth century to contemporary times. Summer reading and writing assignments are required. This course prepares students to take the national AP Exam in May, which may result in students earning college credit. More details are available in the AP pamphlet available from the Guidance Department. [Open to seniors who have passed AP English Language; recommended prerequisites: 90+ average in English courses, PSAT or SAT Reading \& Writing score of 500+, self-discipline and motivation].

BRITISH LITERATURE IN THE MODERN WORLD
1 CREDIT
British Literature includes the study of novels, short stories, drama, and poetry. The nonfiction aspect of this course focuses on global, cross - cultural nonfiction. Here students will research, read, present, and discuss nonfiction writing which includes essays, letters, debates, biographies, and autobiographies. Emphasis is placed on reading, writing, and interpreting poetry. Course work will emphasize the student's ability to understand, explain, and evaluate a literary work. Students will be exposed to $21^{\text {st }}$ century learning and writing skills through project-based assessments utilizing modern technology and skills. [Open to seniors only]

In this course designed for the college bound and set at an accelerated pace, students will study various selections including novels, short stories, drama and poetry. Students will read both fiction and nonfiction writing such as essays, letters, debates, biographies and autobiographies. Emphasis is placed upon reading, writing and analyzing poetry. Students will be exposed to $21^{\text {st }}$ century learning and writing skills through project-based assessments and will write a formal research paper. Summer reading, written analysis, and other assignments are required. Enrollment will be based on teacher recommendation and the student must have earned at least a $90 \%$ in junior level English. [Prerequisite: 155-Multicultural Literature or 156-Advanced Placement English Language and Composition].

The SAT Writing and Critical Reading course is designed to strengthen the problem-solving and testing skills of students who are preparing for the writing and critical reading sections of the Scholastic Aptitude Test (SAT) and SAT II. It is taught concurrently with 981-SAT Prep Math. [Prerequisite: 1 credit in English]

Family and Consumer Science courses will introduce our students to a gainful and useful background in various aspects of life, including the physical, social, and economical aspects of everyday living.

The course is designed to help students understand and value the importance of wellness and its components through lifetime nutrition, exercise choice and disease prevention. The course is a personal reflection of their current health practices with further education on future change. This class is taught as an applied science with both lecture, labs, and taste testing formats. The student will be analyzingtheir diets, evaluating nutrition claims and research, developing meal plans based on macro and micronutrients, exploring nutrients and how it affects the body, and creating an educational campaign for Nutrition month. The class is helpful for students pursuing a degree in the medical, athletic, or culinary field. This is not a cooking class. [Pre-requisite: Honors or AP Science class]

895 CAREER \& CONSUMER SKILLS-
$1 / 2$ CREDIT
Students will identify their skills, abilities, goals, and interests in preparation for further education and career choice. Career education and work standards in the areas of career awareness, preparation, acquisition, retention, advancement, and entrepreneurship are the focus. Additionally, the class will cover financial literacy and money management. Primarily taught using computer-based learning programs; SMARTFUTURES AND EVERFI, providing the student the necessary applications for making informed career decisions and enhancing financial understanding and responsibility within each specified module. Teacher created extension activities and cumulative projects are utilized throughout the course in addition to computer learning. (Required in Grade 10)

## 835

BASIC FOODS
1 CREDIT
In this course, students will apply fundamental culinary techniques. Topics covered include knife handling skills, recognition, selection and proper use of tools and equipment. An emphasis will be placed on sanitation, standard recipe conversion techniques, mise en place, time management and cooking workplans. Students will have the opportunity to be ServSafe certified. (Open to Grades 9-12)

This course is designed to acquaint students to the art of gourmet cooking using second level food production skills. Students will experience advanced knife skills, hors d'oeuvre production, candy and confection making, planning and execution of a gourmet Thanksgiving Dinner, food marketing and packaging. Students will compare various aspects of international cuisines and explore culturally noteworthy ingredients and cooking methods. Students will examine the issues and conditions that affect the availability and quality of food in the global market. Students will have the opportunity to be ServSafe certified. [Prerequisite: 835- Basic Foods]

CULINARY PASTRY ARTS
1 CREDIT
This course is an in-depth study of the pastry arts. Labs will include specialty pie production, piping skills, fillings, frostings, icings, layer cake construction, laminated doughs, and yeast bread production. This course is designed to mirror a student's first year in a culinary baking and pastry course. Students will have the opportunity to be ServSafe certified. [Prerequisite: 835- Basic Foods and 851- Gourmet Foods] (Open to Grades 11-12)

This is an introductory course designed to provide a more in depth look at sewing and expose students to the textile/fashion industry. Students will learn hand sewing techniques, pattern reading, equipment and sewing terminology and gain a deep understanding of the sewing machine. Projects will involve basic sewing skills, crafting, quilting, and visual merchandising. (Open to Grades 9-12)

TEXTILE AND DESIGN
1 CREDIT
This course is designed as an introduction to garment construction and design. Students will be exploring the influences of clothing choice, fashion history, fashion styling, upcycling, the characteristics of fabric and fabric care. The students will continue to increase their sewing machine knowledge and pattern reading with construction of totes, Pi shorts, skirts, dresses, and upcycling projects using commercial patterns. In addition to construction students will explore fashion sketching and peer critiquing. Skills such as various zipper placements, webbing application, waistbands, linings, and hemming will be the focus of construction. Participation in the CATWALK Fashion show is mandatory. [Prerequisite: 833- Introduction to Sewing (Open to Grades 10-12)]

FASHION EXPLORATION
1 CREDIT
This course is designed to further develop students in fashion design and apparel construction. Students learn fashion theories, explore fashion designers, implement elements and principles of design, perform market research, investigate sustainable fashion, and continue fashion illustration. This course provides an opportunity to expand on fashion portfolios and other aspects of the fashion industry. Projects include dresses, skirts, pants, jackets, hats, and upcycling for specific skill building. Participation and modeling in the CATWALK Fashion Show is mandatory. [Prerequisite: 833- Introduction to Sewing, 843- Textile and Design] (Open to Grades 11-12)

CREATIVE CONSTRUCTION
1 CREDIT
This is a senior level course designed to examine a more in- depth study of the garment and fashion industry while expanding their portfolio knowledge and career exploration. Students are expected to design and construct their own clothing line using self-expression, skills learned, pattern development, draping, sketching and fabric knowledge. Maintaining a binder with all measurements, patterns, drapes, fabric selections, sketches and cost are the primary assessment points in addition to the finished clothing line and competitive pieces. Students will also create a collection title, mission, and logo using graphic design. Lead the CATWALK Fashion Show, model collection, and create a senior display. [Prerequisite: 863- Fashion Exploration] (Open to Grade 12)

CHILD DEVELOPMENT
1 CREDIT
Understanding how children grow and develop is an important skill for parents and for people in a growing number of professions and careers. This growth and development occurs before birth and continues throughout the lifespan. Students will identify and examine the stages of human life from the prenatal stage through adolescence. Students will learn about various caregiver skills and strategies, as well as, the opportunity to use Real Care Infant Simulators. The course will emphasize parenting and child rearing skills, as well as, exploring the physical, cognitive, social and emotional growth of children. (Open to Grades 10-12)

Today's families face many challenges as they grow and develop. It is important for individuals to have the knowledge, resources, and skills that create strong families and citizens. This course will address techniques, research and exercises that create a better understanding of how to build and maintain a healthy relationship with the family unit and within various units of society. The Family Development curriculum takes a close look at family throughout various stages of the human life cycle. Emphasis will take place on community resources and current trends that affect families today.

Many of the growing careers of the present relate to working with children. To be successful in these careers, it takes much skill and knowledge that focus on all aspects of working with children. This course allows the student to learn concepts needed to work with children in various aspects, including required training and skill, child development theories and practices, lesson and curriculum planning, preparing the learning environment and managing an ECE setting. (Includes monthly elementary school observations)

This course is an extension of Early Childhood Education I and is primarily a career-oriented course for those thinking about a career in Early Childhood Education or a related occupation. It will focus heavily on fieldwork and observation in our district elementary schools. Students will be completing coursework that prepares them to take the Child Development Associate Credential Assessment at the end of the year. [Prerequisite: 855-Early Childhood Education I] Requires teacher and guidance approval. Students will be conducting fieldwork several hours per day.

FAMILY AND CONSUMER SCIENCE LAB TECHNICIAN
This is an independent study course in which students are responsible for cooking and sewing laboratory preparations. Students will need knowledge of basic cooking and/or sewing skills and be able to implement all safety and sanitation rules. Students may be required to help other students in class, operate and tear down the dishwasher, and locate equipment and supplies. Students will need to be responsible, self-motivated, and be able to follow written and oral instructions with multiple steps. [Prerequisites: 835-Basic Food Prep and either 840Baking and Pastry or 851-Gourmet Foods or 833-Introduction to Sewing; written FCS teacher approval and minimum grade of $85 \%$ ]


The Foreign Language Department strives to instill in each student an appreciation for and awareness of the language, history, mores, and customs of other countries.

FRENCH I - Western Wayne Virtual Academy 1 CREDIT
At this level, students are introduced to the basic elements of French as they move through the early stages of language acquisition. They study major vocabulary categories, verb tenses, and other fundamental components of French grammar. The main purpose is to help students communicate in French at a basic level, appreciate the French-speaking world, and develop cultural awareness. This course is an on-line class offered during the school day.

SPANISH I 1 CREDIT
For the beginning student, Spanish I offers short, lively dialogues, related vocabulary supplements and exercises, imaginative structural drills, and increased reading and writing materials. Students are also introduced to the culture and geography of Spain and Latin America. Spanish culture in the United States is emphasized.

GERMAN I - Western Wayne Virtual Academy
1 CREDIT
At this level, students are introduced to the basic elements of German as they move through the early stages of language acquisition. They study major vocabulary categories, verb tenses, and other fundamental components of German grammar. The main purpose is to help students communicate in German at a basic level, appreciate the German-speaking world, and develop cultural awareness. This course is an on-line class offered during the school day.

At this level, students review the basic elements of German grammar acquired in German I and expand their communicative abilities. They advance their knowledge of German grammar and learn additional vocabulary. Their language skills increase to the point where they can participate more fully in general conversations, read more sophisticated passages, and write with a firmer command of syntactical structures. Cultural awareness is further developed. This course is an on-line class offered during the school day. [Prerequisite: 330-German I]

At this level, students review the basic elements of French grammar acquired in French I and expand their communicative abilities. They advance their knowledge of French grammar and learn additional vocabulary. Their language skills increase to the point where they can participate more fully in general conversations, read more sophisticated passages, and write with a firmer command of syntactical structures. Cultural awareness is further developed. This course is an on-line class offered during the school day. [Prerequisite: 330-French I]

This course is devoted to the discussion and mastery of the grammatical and fundamentals of the Spanish language. The concepts which are utilized allow the student to converse at the level of an elementary age native speaker. Slang terms and practical idiomatic expressions challenge English speaking students who are learning Spanish as a second language and Eres Tu' Maria Video Series. Eres Tu' Maria provides a motivating experience with Spanish using a storyline. Students will improve listening and reading comprehension as a result of watching and completing the correlating activities. Periodic discussions of the history, culture, and literature of Spain, Mexico, and Latin America are also presented. [Prerequisite: 331-Spanish I]

Spanish III is a course in refinement of oral language skills and the introduction of written and grammatical language skills by using a variety of short dialogues, stories, and histories to increase the student's vocabulary, confidence, and writing ability. LaCatrina Video Series students learn to move beyond the textbook and yet understand what they are hearing at an intermediate level. Mexico is the country of focus in "La Catrina." [Prerequisite: 341-Spanish II with an average of $80 \%$ or above or teacher recommendation.]

SPANISH IV
1 CREDIT
After a brief review of all tenses presented in previous levels, the Spanish IV student will gain confidence by mastering oral and written skills through topical theme discussions, and conversations. The art, music, cuisine and history of Spain and other Spanish-speaking nations will be highlighted periodically. La Catrina "el ultimo secreto" Video Series is a continuation of the Spanish III series "La Catrina." Mexico is the country of focus in "El Ultimo Secreto." [Prerequisite: 351-Spanish III with an average of $88 \%$ or above] across three communicative modes (Interpersonal [Interactive communication], Interpretive [Receptive communication], and Presentational [Productive communication]). This course will align with the National Standards for Foreign Language which includes communication, cultures, connections, comparisons, and communities. This course promotes an awareness and appreciation of cultural products, both tangible (tools, books, music) and intangible (laws, conventions, institutions); practices (patterns of social interactions within a culture); and perspective (values, attitudes, and assumptions that underlie both practices and products). This course should be comparable to college and university courses that focus on speaking and writing in the target language at an advanced level. Students may take the AP Spanish exam. [Prerequisite: $90 \%$ average or better in Spanish I, II, III, and IV]

Success in a high school mathematics course requires, among other factors, a proficiency in basic math, and the proper background in mathematical concepts. Many of the courses offered build upon previously-learned material and, therefore, have one or more prerequisites.

A student who wants to take more than one mathematics credit in a year is urged to discuss the possibilities with his or her guidance counselor and mathematics teacher.

Three (3) credits in mathematics are required for graduation. Accounting I \& II cannot be used for these 3 credits. Accounting I and II will be counted as additional math credits beyond the required 3 for graduation.

430GEOMETRY HONORS 1 CREDIT
Geometry (9) enables students to acquire information about geometric figures using intuition, deductive and inductive thinking, formal proofs, constructions, and Algebra. Included is a thorough study of 5 Big Ideas: angle pairs, triangles, quadrilaterals, circles, and surface area/volume. [Prerequisite: Enrollment will be based on teacher recommendation and Algebra I grades.]

Algebra is a branch of mathematics in which a system of numbers, variables, and operations are utilized to represent quantities. Problem solving will require critical thinking and a systematic approach. The big ideas to be explored are Solving Equations and Inequalities, Functions, Linear Equations and Inequalities, Systems of Equations and Inequalities, Laws of Exponents, and Polynomials. [Prerequisite: 7th \& 8th Grade Mathematics]

ALGEBRA (A)
1 CREDIT
Algebra is a branch of mathematics in which a system of numbers, variables, and operations are utilized to represent quantities. Problem solving will require critical thinking and a systematic approach. Algebra A is the first half of a two-year algebra course. The second course is Algebra B. The topics to be explored in Algebra A are as follows: Solving Equations and Inequalities, Functions, and Linear Equations. [Prerequisite: 8th grade math, or teacher or guidance recommendation. Note 432-Algebra A plus 442 Algebra B is equivalent to one year of 431 Algebra 1]

ALGEBRA II HONORS
Algebra II Honors is a rigorous, fast paced course designed for highly motivated mathematics students. Students will study the common core concepts represented in the five big ideas: simplifying expressions, solving equations and inequalities, graphing analysis of functions, application of functions and data analysis. These five ideas will focus around seven functions (linear, quadratic, exponential, logarithmic, polynomial, radical and rational). Summer work is required. Prerequisites: 431-Algebra I and 430-Geometry Honors with at least an $85 \%$ combined average. Teacher recommendation is also a possibility for enrollment in this course.

Geometry enables students to acquire information about geometric figures using intuition, deductive and inductive thinking, formal proofs, constructions, and Algebra. Included is a thorough study of 5 Big Ideas: angle pairs, triangles, quadrilaterals, circles, and surface area/volume. [Prerequisite: 431-Algebra I]

Algebra is a branch of mathematics in which a system of numbers, variables, and operations are utilized to represent quantities. Problem solving will require critical thinking and a systematic approach. Algebra B is the second half of a two-year algebra course. The first course is Algebra A. The topics to be explored in Algebra B are as follows: Linear Equations and Inequalities, Systems of Equations and Inequalities, Laws of Exponents, and Polynomials. [Prerequisite: 432-Algebra A. Note: 432-Algebra A plus 442 Algebra B is equivalent to one year of 431 Algebra 1]

APPLIED GEOMETRY
Geometry enables students to acquire information about geometric figures using intuition, deductive and inductive thinking, formal proofs, constructions, and Algebra. Included is a thorough study of 5 Big Ideas: angle pairs, triangles, quadrilaterals, surface area and volume. [Prerequisites: Algebra A, Algebra B, and teacher recommendation]

This course concentrates on the areas that provide a solid foundation for the formal study of Calculus and further develops the concepts learned in Algebra II. Topics include: Equations, Functions and their graphs, Polynomials, Exponential and Logarithmic Functions, and Trigonometry. [Prerequisites: 431-Algebra 1, 441-Geometry and 451-Algebra II or higher. The student must have a combined average of at least an $85 \%$ or teacher recommendation.]

Pre-Calculus honors is a rigorous fast paced course designed for highly motivated mathematics students who are college bound. Students will continue their common core concepts based on the five big ideas of the seven functions from Algebra II Honors and two new functions, Trigonometric and Rational. Sequences, Data Analysis, and applications of each are also addressed. [Prerequisites: Success in 440-Algebra II Honors with at least an $85 \%$ combined average.]

ALGEBRA II
1 CREDIT
Algebra II reviews and further develops the topics covered in 431-Algebra I and increases the student's knowledge of such topics as quadratic equations, rational functions, and logarithms. [Prerequisites: 441Geometry \& 431-Algebra I]

This is a statistics course for beginners. Topics will be chosen from both descriptive statistics and inferential statistics. Also, topics in probability will be studied. [Prerequisite: Algebra II]

Calculus includes these topics: limits, derivatives, and integrals of functions and their applications. [Prerequisites: $85 \%$ final average or teacher recommendation in 450-Pre-Calculus or 450A-Pre-Calculus Honors]

AP Calculus is a college level course that students can use to prepare for the AP Exam. To take the AP exam the student must have a $90 \%$ or better in the course. Topics includes: limits, derivatives, and integrals of functions and their applications. Summer work is required. [Prerequisites: $90 \%$ final average or teacher recommendation in 450A-Pre-Calculus Honors] computing course. In this course, students will develop computational thinking vital for success across all disciplines. Students will use computational tools to analyze and study data. Students will apply creative processes to create computational artifacts and are encouraged to think creatively while using computer software. [Prerequisite: Successful completion of 431-Algebra I]

AP Computer Science A introduces students to computer science with fundamental topics that include problem solving, design strategies and methodologies, organization of data, algorithms, analysis of potential solutions, and the ethical and social implications of computing. The course emphasizes both object-oriented and imperative problem solving and design using Java language. The AP Computer Science A course must include a minimum of 20 hours of hands-on structured lab experiences to engage students in individual or group problem solving. The AP Computer Science A course curriculum is compatible with many CS1 courses in colleges and universities. [Prerequisite: Successful completion of 431-Algebra I and 975-Computer Programming I; $11^{\text {th }} \& 12^{\text {th }}$ Grade students].

COMPUTER PROGRAMMING I
1 CREDIT
Computer Programming I introduces the student to the world of computers. We start with Python (a programming language) in order to teach the student logical thinking. The student then is introduced to binary and hexadecimal arithmetic. We also introduce the student to a Graphics Library for Python. Finally, Logic Statements and Truth Tables are introduced. This course is a prerequisite for all other courses in programming.

COMPUTER PROGRAMMING II
1 CREDIT
Computer Programming II starts with more advanced Python programing utilizing Carnegie Mellon's CS2 Academy. Introduction to solid state logic design and single state automata. The student will be required to create several websites, both informational and curricular. [Prerequisite: 975-Computer Programming I]

## 977

COMPUTER PROGRAMMING III
1 CREDIT
This is a comprehensive course designed for creating Object oriented programs using console and visual C++. We will develop advanced Internet skills and Internet applications and document creation, using programs such as Visual Basic and Visual C++. The basics of Game Theory will also be introduced. [Prerequisite: 975-Computer Programming II]

## 978

COMPUTER PROGRAMMING IV
1 CREDIT
This course will be an introductory course in Java Programming. Students will also be required to enter the State Computer Fair in any one of the eight categories: Graphics, Digital Movie, Animation, Computer Logo, Text Based Publications, Multimedia Presentation, Curricular Website or Information Based Website. [Prerequisite: Teacher recommendation and successful completion of $\mathbf{9 7 5}$-Computer Programming I AND 977-Computer Programming III, $11^{\text {th }}$ and $12^{\text {th }}$ grade only.]

This course reinforces concepts taught in General Math, Algebra, and Geometry in order to better prepare the student to take the Scholastic Aptitude Test. Students take placement exams on Khan Academy or use CollegeBoard results to work on concepts that need improvement. Testing strategies are also emphasized for students. It is taught concurrently with the 980-SAT Prep Writing \& Critical Reading.

KEYSTONE ALGEBRA
This course concentrates on Algebra I curriculum with a focus on the topics presented in the Keystone exam. This course is mandatory for any student who does not reach proficiency on the Algebra 1 keystone exam.

The Music Department offers several exciting performing groups. Special ensembles such as Jazz Band, Select Chorus, and others will be offered to members of the ensemble classes Band and Chorus. All instrumental ensembles are outgrowths of the basic course in playing techniques called Band. All vocal ensembles are outgrowths of the basic course in vocal technique called Chorus. Anyone considering a career in the musical arts should take both instrumental and vocal training.

## 925 BAND

The Band program at Western Wayne has come to be known as one of the finest in Northeast Pennsylvania, having great success over the last 25 years.
Within the Band program there are multiple ensembles such as Concert Band, Marching Band ("The PRIDE of Western Wayne"), Jazz Band, Brass and Woodwind Ensembles. Band Class is the backbone of the instrumental music program and rehearses during the scheduled Band period. All students in Band class are automatically accepted as members of the Concert and Marching Bands. Selection to Jazz Band, Brass and Woodwind Ensembles and other special performing groups will be established by the Band Director.
The Band performs in two formal concerts annually. These are traditionally a holiday concert and a spring concert. The Band also performs for special school functions, such as assemblies, graduation and pep rallies. The Band performs at football games and in parades, cavalcades and community events. Transportation costs associated with all away football games and up to 5 (five) community events will be the responsibility of the District; travel costs for other band events is subject to transportation funding rules, whatever they may be at the time. An annual schedule of performances will be provided to students and their families on the WWBAND Google Classroom and in print if requested. Additional performances may be added during the year but students will be given notice of performances well in advance or they will not be expected to perform.

Performance and Rehearsal Schedule and Requirements for Band Class.

1. The marching band will rehearse after school one day a week and also the day of any Friday football game. All rehearsals are considered part of the class participation grade. WW Varsity Sports students will be excused from these rehearsals early to allow students to participate in both the Band and sports.
2. All performances are graded and will be treated as tests. As such, a student will have the opportunity to make up any missed performance by completion of a test or assignment assigned by the band director. This make up will only be offered if the absence is excusable by school attendance policy.

## 926 CHORUS

Chorus is offered as either a one-credit or $1 / 2$-credit course. This course is designed to give students an opportunity to improve vocal technique and musicianship through choral singing. From the hesitant music learner to the highly skilled, gifted musician, we will learn and perform together to create beautiful choral music.

Students planning a career in music are encouraged to take chorus. Chorus provides an opportunity to sing without the pressure of performing alone. Students will work as a group to develop Vocal Music for various performances. Advanced vocalist that enjoy to compete, are encouraged to audition for PMEA festivals where qualifying students have an opportunity to perform with various students from other school districts.

Performance Requirements The Chorus will perform in two formal concerts annually, a traditional holiday performance and a spring performance. Other performance opportunities include small ensembles, vocal solo work (student choice), as well as special school functions and community services.
Concert Attire The attire for the chorus is a formal attire of black and white. Solid White Dress Shirt with a Collar \& Sleeves, Solid Black Pants/Skirt (Skirts should fall between the ankle \& knee or floor length), and Solid Black Shoes

This course studies several aspects of theater arts, including:

1. Intermediate acting, movement, and vocal techniques
2. History of the theater and its cultural purposes
3. Anatomy of a production
4. Understanding of theater as students will explore basic acting skills including pantomime and improvisation, create and perform plays, and critique performances.

The purpose of this year long, repeatable course is to give the student an increased appreciation of an additional experience in theater as an art form. Students taking the course for a $2^{\text {nd }}, 3^{\text {rd }}$, or $4^{\text {th }}$ year will review previous aspects of theater arts and will be offered more intensive and highly individualized instruction in acting, with rigorous, performance-oriented training in singing and acting techniques, with a secondary emphasis on dance. Students continuing training in theater arts will also be offered a study of stage technology and theatrical design. This course has been crafted for the beginning theater art student or the student who is seriously interested in pursuing the theatrical arts as a major or minor at the university level. (Open to all)

Performance Requirements - Students are required to perform in a formal theatrical production during the school year. (School Production or Community Production)
931
STAGE CREW
$1 ⁄ 2$ CREDIT
This is an introductory course for students interested in the technical aspect of theater. Units of study include:
Safety, Professionalism, Theater Electricity, Lighting Design, Sound Design, and Basics of Theater. This course requires after school hours as part of the student's grade. Students who elect this course will be required to work the spring musical. (Open to students in grades $9,10,11$, and 12 with teacher approval)

MUSIC THEORY I
$1 / 2$ CREDIT
Music Theory I is offered to all students with basic music skills. This course will explore the foundational elements for writing music, including but not limited to: Music Notation, Music Terms, ear training/dictation, sight singing, improvisation, and composition. [Experience on an instrument or voice, as well as, basic notereading skills are required.]

Music Theory II is offered to all students who have completed Music Theory I or who have passed a proficiency exam with the teacher. This class will explore advanced written music notation, music terms, scale structure, ear training/dictation, sign singing, and composition. [Experience on an instrument or voice, as well as, basic notereading skills are required.] [Prerequisite: 971-Music Theory I or teacher permission]

Music Theory III is offered to all students who have completed Music Theory II or who have passed a proficiency exam with the teacher. This course will explore advanced written harmony, keyboard harmony, ear training/dictation, sight singing, Chord Structure, music forms and composition. All students will be required to write an arrangement suitable for performance. [Experience on an instrument or voice, as well as, basic notereading skills are required.] [Prerequisite: 971-Music Theory II or teacher permission]

The objective of the Physical Education curriculum is to provide the student with skills and knowledge for active participation in and enjoyment of physical activity. We believe that physical education should prepare our students for a healthy lifestyle with the knowledge of wellness, fitness, and physical activity. Our program emphasizes an understanding of the reasons why it is physiologically important to maintain a healthy body. Activities include team sports, lifetime sports, rhythmic, and personal fitness. understanding of rules, concepts and strategies, and low-level team play. Students are also introduced to individual and dual racquet sports with a strong emphasis on skill development. [Required]

Tenth grade physical education is a continuation of the ninth-grade philosophy with a greater emphasis on individual skill development, increased awareness of team concept play, and an understanding of the enjoyment derived from these activities, as well as a continuation of strength, core, and cardiovascular development. [Required]

Eleventh grade physical education emphasizes the aforementioned goals, with greater appreciation for lifetime leisure enjoyment through individual and some team-oriented physical activities and an understanding of the "good sportsmanship" attitude. [Required]

BOYS 12 GYM/GIRLS 12 GYM-
Twelfth grade physical education is the culmination of skill development, team concept, shared goals, appreciation for the spirit of the competition and not necessarily the "win-at-all-costs" philosophy. The course addresses an overall attitude to be carried into all aspects of life. It also emphasizes lifetime activities and gives students more opportunities to develop a personal development program. [Required]

ADVANCED GYM
$1 / 2$ CREDIT
The purpose of this course is to give students who play two or more interscholastic sports the opportunity to participate in a safe, yet challenging, strength training program. Students will learn to design and maintain a sportspecific weight training routine which will help prepare them for competition and encourage them to develop a lifetime commitment to physical fitness. This course is graded on participation and effort; therefore, athletes enrolled are expected to show self-motivation. Once the school year begins, no student is permitted to switch Gym classes. Advanced Gym will serve as the student's gym class. Students can also take a regular gym class if they choose. [Admittance to class must meet with the PE teacher's approval and with two different sports coaches’ signatures - Grades 9-12]

Health education is the process by which individuals and groups of people learn to behave in a manner that is conducive to the promotion, maintenance, and restoration of health. The health education course is designed to supplement and enhance previously learned health knowledge. Through a conceptual approach, the students will be provided with a wide scope of general health and health related issues. The health education field is ever changing. It is very important for students to be aware of the most current health trends and issues. Several class periods throughout the school year will be devoted to current health topics.

Areas to be studied throughout the school year include:

- First Aid and CPR
- Non-communicable Diseases
- Nutrition and Digestive System
- Reproductive Health
- Communicable Diseases


## CPR Certification:

All health education students will have the opportunity to earn their adult, child and infant CPR certification through The American Safety and Health Institute (ASHI). ASHI is an association of professional safety and health educators providing nationally recognized training program across the United States and in several foreign countries. ASHI's mission is to continually improve safety and health education by promoting high standards for members, principles of sound research for curriculum development, and the professional development of safety and health instructors worldwide.

## PRERTME CHERT

The Western Wayne School District has an agreement with the local fire companies to provide elective credit for the following courses sponsored by the fire companies:

1. Firefighting I
2. Emergency Medical Technician

The following criteria must be met for this elective credit to be awarded:

1. Proof of membership in the fire company
2. Description of their course
3. Number of hours of instruction
4. Copy of certificate of completion

Upon receipt of this information, one elective credit per course will be entered on the student's transcript with an indication of a " P " (passing) grade. This grade will not be part of the computed grade point average.

## SCIEPE OFPRTMEMT

The science courses described below have been designed to meet the needs of a diverse student population - collegebound, career-bound, or domestic-bound. Students should be able to find success in one of the career paths available to them. Outstanding student performance can be converted to college credit through an Advanced Placement Chemistry, Advanced Placement Biology, or Advanced Placement Physics course.

## 531

GENERAL SCIENCE 9
1 CREDIT
This course is designed to provide an opportunity to investigate areas of Ecological and Environmental Sciences as well as Biochemistry and how they are an integral part of everyday life. We will investigate the composition, diversity and how living things connected to earth. The fundamental concept of evolution will lead to investigations into explorations of the living world, the physical environment, and the interactions that occur in and between ecosystems. Biochemistry will involve the study of the molecular composition of living cells, the organization of biological molecules within the cell, and the structure and function of these biological molecules. Students will engage in investigations to understand and explain the behavior of living things in a variety of scenarios that incorporate scientific reasoning, analysis, communication skills and real-world applications.

This biology will cover topics such as ecology, biochemistry, cell biology, photosynthesis and respiration, molecular and Mendelian genetics, evolution and diversity of life. The course uses lecture and laboratory methods and is designed for the student with a strong interest in the sciences. Laboratory activities are used extensively throughout this course. [Restrictions: Students earning a credit in 542-Applied Biology or 541A Inquiry Biology w/Lab Honors may not take this course for credit]. [Prerequisites: Successful completion of $\mathbf{5 3 1}$ -General Science 9]

541AINQUIRY BIOLOGY W/LAB HONORS
This course covers the topics presented in biology at a faster pace and in more detail. The lecture portion of the class will cover topics such as ecology, biochemistry, cell biology, photosynthesis and respiration, molecular and Mendelian genetics, evolution and diversity of life. Laboratory classes are designed to stimulate student interest and encourage problem solving and discovery. This course is designed for highly motivated academic students of exceptional ability who have a strong interest in science and are willing to investigate biology at a deeper level. Students wishing to take 563-AP Biology must take this course. Summer work is required. [Prerequisites: Successful completion of 431-Algebra I (may be taken simultaneously). Proficient or Advanced on the $8^{\text {th }}$ Grade Science PSSA and Reading PSSA or successful completion of General Science 9 with a grade of $90 \%$ or better.]

This course in general biology will cover topics such as ecology, biochemistry, cell biology, photosynthesis and respiration, molecular and Mendelian genetics, evolution and diversity of life. Students are expected to conduct experiments and explorations on a regular basis. [Prerequisites: Successful completion of 531-General Science 9]

This is a first-year course in modern chemistry designed to provide the student with basic knowledge of concepts including atomic structure, quantum mechanics, bonding, behavior of gases, chemical reactions, and an understanding of the "mole" concept. This course has a strong emphasis on the application of mathematical concepts in a scientific setting. Students will learn how to utilize the scientific method coupled with dimensional analysis to solve scientific problems. At the end of the course, students should be creative and competent problem solvers. [Prerequisite: 431-Algebra I, 441-Geometry or 430-Geometry Honors (may be taken simultaneously), 541-Inquiry Biology w/Lab, 541A-Inquiry Biology w/Lab Honors, or 542-Applied Biology, with a grade of $85 \%$ or better; 541A-Inquiry Biology w/Lab Honors, or 541-Inquiry Biology w/Lab may be taken simultaneously]

CHEMISTRY I W/LAB HONORS 1½ CREDITS
This is a rigorous, fast-paced course designed for highly motivated students with a strong interest in the math and sciences. This course provides students with in-depth detail of such concepts as matter, atomic structure, quantum mechanics, bonding theory, chemical equations, the periodic table, nomenclature, and the "mole concept". This class will challenge the student with process and inquiry skills inherent in the study of science. This class will include lecture, as well as, a hands-on laboratory component. Students will be required to maintain a scientific notebook. Students wishing to take $\mathbf{5 6 5}$-AP Chemistry must take this course. Summer work will be required. [Prerequisites: Successful completion of 421-Algebra I, with a minimum of $85 \%$ or better, 441-Geometry or 430-Geometry Honors (may be taken simultaneously); 541-Inquiry Biology w/Lab or 541AInquiry Biology w/Lab Honors may be taken simultaneously. Students must pass the Biology Keystone Exam and the Algebra Keystone exam if they have taken these courses.]

This course presents a general overview of basic chemistry. Topics include the periodic table, chemical properties, chemical structure, compounds, equations, and reactions. This course introduces students to the basic concepts of chemistry such as the mole, molar mass, and Avogadro's number. Teacher demonstrations, student laboratories, and student-centered activities are regular parts of the instruction. The course is aimed at providing the student with information, scientific principles, applications, and investigations. It is specifically geared toward non-science/non-math majors. Students who have taken or are taking 551-Chemistry w/Lab or 551A-Chemistry w/Lab Honors cannot take this course.

This course is designed for college-bound students planning to pursue careers in any of the health-related fields. Students will study the structure and function of human biological systems, the basic chemistry of the human body and cell structure. The course will examine body systems in detail. Offered to $11^{\text {th }}$ or $12^{\text {th }}$ grade students with teacher recommendation. May be taken by $10^{\text {th }}$ grade students who are taking AP Biology simultaneously. [Prerequisite: Successful completion of 541-Inquiry Biology or 541A-Inquiry Biology w/Lab Honors or 542Applied Biology, with a grade of $85 \%$ or better and a Proficient or Advanced score on the Biology Keystone Exam.]

This accelerated course is designed for college-bound students planning to pursue careers in the medical field. This course will be taught at a collegiate level with significant independent work. Students will study the structure and function of human biological systems focusing on the advanced cellular biology that supports each system. The course will examine body systems in detail with a focus on physiology at each level of organization. Dissection and laboratory practical examinations will be emphasized. Summer work may be required. Offered to 11th or 12th grade students with current science teacher recommendation. [Prerequisite: Successful completion of 541-Inquiry Biology 541A-Inquiry Biology w/Lab Honors, with a grade of $90 \%$ or better and an advanced score on the Biology Keystone. Successful completion of 551-Chemistry I w/Lab or 551A- Chemistry I w/Lab Honors with an $85 \%$ or better. 551-Chemistry I w/Lab or 551A-Chemistry I w/Lab Honors may be taken concurrently with this course.]

This is a first-year course in modern physics designed to provide advanced students with basics in the mechanics of work, energy, power, mechanical waves, sound, and electricity. Modern Physics and simple machines are also covered in this course. This course prepares the student for college courses by developing cognitive thinking. [Prerequisites: A grade of $80 \%$ or better in 431-Algebra I and 441-Geometry or 430-Geometry Honors]

GENERAL KEYSTONE SCIENCE
-1/2 CREDIT
In this course students will further their understanding of Biological concepts including basic biological principles, the chemical basis of life, bioenergetics, homeostasis and transport, cell growth and reproduction, genetics and the theory of evolution. This course uses a variety of instructional approaches and laboratory activities to further student understanding in preparation of, as well as remediation for, the Biology Keystone exam. This course is mandatory for any student who does not reach proficiency on the Biology Keystone exam.

ADVANCED PLACEMENT BIOLOGY W/LAB
The Advanced Placement Biology course is designed to be the equivalent of a two semester college introductory biology course. Topics covered include in-depth review of cell anatomy and physiology, mitosis and meiosis, cellular energetics, heredity and molecular genetics, the anatomy and physiology of plants and animals, and ecology. Primary emphasis is given to developing an understanding of concepts rather than memorizing terms and technical details. Summer work is required. You must have an $85 \%$ or higher in this course to be eligible to take the AP exam. [The course is designed for college-bound students planning to major in any of the biological sciences. Prerequisites: 431-Algebra I; 541A-Inquiry Biology w/Lab Honors and teacher recommendation; 556-Anatomy \& Physiology w/Lab is recommended but not required. It will help with preparation for the AP exam. Students must pass the Biology Keystone Exam and the Algebra Keystone Exam.]

565ADVANCED PLACEMENT CHEMISTRY W/LAB ----------------------------------------------1½ CREDITS Advanced Placement Chemistry is a second-year course in chemistry, designed to provide an opportunity for high school students to receive credit for college-level coursework while still in high school. Topics include structure of matter, kinetic theory of gases, chemical equilibria, chemical kinetics, acid/base chemistry including buffer solutions, electrochemistry, and the basic concept of thermodynamics. Lecture and laboratory work are key components of this college run curriculum. A strong background in math is highly recommended due to the intensive mathematical problems inherent in chemistry concepts. Students are expected to be independent learners and may need to complete subject matter outside of the classroom. Students will be required to maintain a scientific notebook. This course is designed for the college-bound student with a strong interest in science. Summer work is required. You must have an $85 \%$ or higher in this course to be eligible to take the AP exam. [Prerequisites: A grade of $90 \%$ or better in 431-Algebra I and 441-Geometry or 430-Geometry Honors, 551AChemistry w/Lab Honors. Students must pass the Biology Keystone Exam and the Algebra Keystone Exam.]

This is an independent study course in which students are responsible for laboratory preparations. Students will need knowledge of basic chemistry and will need to be able to implement all laboratory safety rules. A thorough chemistry vocabulary and understanding of chemical concepts are required. Students will be required to tutor chemistry with lab students, prepare different solutions of varying concentrations, and identify and locate different glassware and equipment. Students will be responsible for all aspects of laboratory preparations, including safety and proper clean-up. Students will need to be responsible, self-motivated, and be able to follow written instruction. Special projects for community outreach could be part of their tasks. [Prerequisites: 551-Chemistry w/Lab or 551A-Chemistry w/Lab Honors with a minimum grade of $85 \%$; Chemistry teacher approval required. Students must score Proficient or Advanced on the Biology Keystone Exam. Students may be asked to complete an independent research project.]

This is an independent study course in which students are responsible for laboratory preparations. Students will need knowledge of basic biology and chemistry and will need to be able to implement all laboratory safety rules. A thorough biology and chemistry vocabulary and understanding of biology concepts are required. Students may be required to tutor biology with lab students, prepare different reagents, and identify and locate different glassware and equipment. Students will need to be responsible, self-motivated, and be able to follow written instructions. Students must be taking a science concurrently with being a laboratory technician. [Prerequisites: 541-Inquiry Biology with Lab or 541A-Inquiry Biology w/Lab Honors; Biology teacher approval; student must have received at least a grade of $85 \%$ in 541-Inquiry Biology w/Lab or 541A-Inquiry Biology w/Lab Honors. Students must score Proficient or Advanced on the Biology Keystone Exam. Students may be asked to complete an independent research project.]

## 568

GENERAL SCIENCE LAB TECHNICIAN
$1 / 2$ CREDIT
This is an independent study course in which students are responsible for laboratory preparations. Students will need a basic knowledge of biological and ecological concepts and be able to implement all laboratory safety rules. Students may be required to tutor General Science and General Keystone Science students, prepare labs and identify and locate all laboratory equipment. Students will need to be responsible, self-motivated and be able to follow written instruction. [Prerequisites: General Science Teacher approval. Completion of 531 General Science with a grade of $85 \%$ or higher. Students may be asked to complete an independent research project.]

This is an independent study course in which students are responsible for laboratory preparations. Students will need knowledge of physics and will need to be able to implement all laboratory safety rules. Students will be responsible for all aspects of laboratory preparations, including safety and proper clean-up. Students will need to be responsible, self-motivated, and be able to follow written instruction. Students may be asked to complete an independent research project. [Physics teacher approval required.]

ADVANCED PLACEMENT PHYSICS 1: ALGEBRA-BASED ------------------------------1½ CREDIT
This course is the equivalent to a first-semester college course in algebra-based physics. The course covers Newtonian mechanics (including rotational dynamics and angular momentum); work, energy and power; mechanical waves and sound. It will also introduce electric circuits. Summer work is required. You must have a $90 \%$ or higher in this course to be eligible to take the AP exam. [Prerequisites: A grade of $90 \%$ or better in 431Algebra I and 441-Geometry or 430-Geometry Honors, 531-General Science 9 and 541-Inquiry Biology w/Lab or 541A Inquiry Biology w/Lab Honors] 450-Pre-Calculus or 450A-Pre-Calculus Honors (must be taken simultaneously). Students must pass the Biology Keystone Exam and the Algebra Keystone Exam.

This course is the equivalent to a second-semester college course in algebra-based physics. The course covers fluid mechanics; thermodynamics; electricity and magnetism; optics, atomics and nuclear physics. Summer work is required. You must have a $90 \%$ or higher in this course to be eligible to take the AP exam. [Prerequisites: A grade of $90 \%$ or better in 570-AP Physics 1: Algebra-Based; 431-Algebra I and 441-Geometry or 430Geometry Honors] 460-Calculus or 461-AP Calculus (must be taken simultaneously). Students must pass the Biology Keystone Exam and the Algebra Keystone Exam.

The Social Studies Department offers a multi-cultural program in all areas of social studies including history, political science, economics, psychology, and geography. Four credits of Social Studies are required for graduation. Students are expected to become proficient in critical thinking and analysis, and to develop a better understanding of the world around them.

230AMERICAN CULTURES II 1 CREDIT
This course is a survey of the history and culture of the Americas, beginning with the U.S. Constitution through the 1800s. In-depth studies are conducted on important historical concepts, economic foundations, and causeeffect relationships, so that the student will better understand the complexities of historical events. The geography of the Western Hemisphere is also incorporated, as it affects the living patterns of those who live there.

AMERICAN CULTURES II HONORS
1 CREDIT
This course is a survey of the history and culture of the Americas, beginning with the U.S. Constitution through the 1800 s. In-depth studies are conducted on important historical concepts, economic foundations, and causeeffect relationships, so that the student will better understand the complexities of historical events. The geography of the Western Hemisphere is also incorporated, as it affects the living patterns of those who live there. This course has an emphasis on writing and primary source analysis at an accelerated pace and will prepare students for the AP US History class. [Prerequisite: Social Studies teacher recommendation and grades will be considered for admission. Summer reading will be assigned.]

The course begins in the $20^{\text {th }}$ Century, and continues to the present, with emphasis on the social, political, and economic history of our country. The course includes a study of the rise of big business, the growth of big cities, and organization of labor; then the rise of America as a world power with the Spanish-American War and World War I. The prosperity of the 20 's, the Depression, and Roosevelt's New Deal are studied with world problems, leading up to World War II. The national and international problems after World War II are considered, concluding with the present-day conditions in America. [Prerequisite: 230-American Cultures II]

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In this course the student will acquire knowledge of world history from the Renaissance to the present. Emphasis will be upon topics such as: the Italian Renaissance, Reformation, scientific revolutions, European monarchies, French Revolution, Asian empires, Russian revolutions, British Empire, South American independence movements, imperialism in Africa, African independence, Asian governments and change, Vietnam War, and the modern U.S.

## 255 ADVANCED PLACEMENT WORLD HISTORY

This one-credit course is designed for Advanced Placement juniors seeking college credit in the area of world history. This course is a rigorous, challenging, accelerated study in the following areas: change and continuity from $8,000 \mathrm{BCE}$ to the present; impact of interaction among and within major societies; impact of technology, economics, and demographics on people and the environment; cultural, religious, and intellectual developments among and within societies; and changes in functions and structures of states. [Prerequisite: Minimum 90\% average in previous social studies course with teacher recommendation. Required summer work will be assigned.]

## 260

AMERICAN GOVERNMENT \& ECONOMICS
1 CREDIT
This is a full-year course that is required of all seniors. Part of the year is devoted to the study of American government and part is used to explore the world of economics. The government portion of the course will emphasize the foundations of our national government with an in-depth analysis of the three branches of the United States federal government. The economics portion of the course will cover the foundations of capitalism and U.S. economic policy in world affairs. The combined course accounts for one full credit.

PSYCHOLOGY
$1 / 2$ CREDIT
Psychology concerns itself with the study of the human mind and attempts to explain why people behave the way they do. The objectives of the course are to introduce students to psychological theories and show how they can relate them to their own lives, instruct students in the use of problem-solving techniques that will aid them in everyday living and demonstrate how human behavior can and does change during various transition periods. The student will develop a future-oriented perspective, as well as increased self-understanding, and be able to relate more effectively to others after taking the course. [Prerequisite - at least an $85 \%$ average in two years of Social Studies; open to juniors/seniors only]

## 265

 ADVANCED PLACEMENT UNITED STATES GOVERNMENT \& POLITICS1 CREDIT
This one credit course is designed for senior Advanced Placement students seeking college credit in the area of United States government. Emphasis is placed on an intensive investigation and thorough understanding of the functioning of our national government, its constitutional foundations, civil liberties and civil rights, as well as the role of political parties and interests groups in our society. Students may take the AP United States Government and Politics exam. [Prerequisite: Social Studies Department recommendation. Required summer work will be assigned.]

## -TECHOOLOY \& EHINIEERIHG OFPRRTMENT-

Technology and engineering courses are available to all students on an elective basis. The courses are designed to allow the student to investigate the various areas in STEAM (Science, Technology, Engineering, Arts and Mathematics) along with the industrial field with experiences in woodworking, metalworking, graphic processes, building trades, computeraided drafting, engineering, video production, electrical concepts, robotics, computer-aided machining, and auto mechanics. This includes core academic concepts and computer experiences relative to the trade area throughout the curriculum. The department suggests that students planning careers in this area should follow the career pathways outlined in this book. Students interested in the engineering fields of study, should follow the engineering pathway recommendation(s) along with high level math and science courses including physics and statistics. If students fail a particular course, students will be required to take a year out of that area and reconsider their options.

## 724 INTRODUCTION TO AUTOMOTIVE TECHNOLOGY

1 CREDIT
This course is designed to provide a survey of topics that are part of the Automotive Technologies Career Pathway. Ideally, participation in this course is intended for students who wish obtain employment in the Automotive Technology fields of Mechanics, Automotive Technicians, Autobody Repair, Collison Repair, Automotive Detailing/Restoration, Estimate Services, Medium/Heavy Vehicle Technician and Diesel Mechanics. (Open to Grade 9)

This two-credit course is intended to provide theoretical and practical knowledge of general mechanical technologies. The progression of the course will prepare students to obtain several credentials. Topics covered include, but are not limited to, safety, tools, suspension and steering, brakes, electronic systems, engine performance, engine repair, automatic transmission, power train, and automotive heating and air conditioning. This class is open to students who are enrolled in the Automotive Technology Career Pathway. (Open to Grade 10)

This two-credit course is intended to provide theoretical and practical knowledge and skills of autobody/collision and repair technologies. The progression of the course will prepare students to obtain several credentials. Topics covered include safety, vehicle design and construction, panel replacement and alignment, trim and hardware, metal finishing, body fillers, glass and hardware, damage analysis, structural component repair, corrosion protection, welding, cutting processes, refinishing equipment and safety, automotive finishes, surface preparation, refinishing equipment and operations, blending, detailing, estimating damage analysis, plastic repairs, and restraint systems. This class is open to students who are enrolled in the Automotive Technology Career Pathway. (Open to Grade 11)

This two-credit course is intended to provide theoretical and practical knowledge and skills of medium/heavy vehicle and truck technology, including diesel mechanics. The progression of the course will prepare students to obtain several credentials. Topics covered include safety, tools, fasteners, hardware, suspension and steering systems, preventative maintenance, brake systems, diesel engines, air intake and exhaust systems, cooling systems, fuel systems, electronic systems, and drive line. This class is open to students who are enrolled in the Automotive Technology Career Pathway. (Open to Grade 12)

This course is designed to provide a survey of topics that are part of the Manufacturing Technologies Career Pathway. Ideally, participation in this course is intended for students who wish obtain employment in the Manufacturing Technologies fields of welding technology, machinist/machine tool technology, electronic engineering, communications engineering, electromechanical technology, drafting and design technologies, and additive manufacturing. (Open to Grade 9)

## 735

MANUFACTURING TECHNOLOGIES I
2 CREDITS
This two-credit course is intended to provide theoretical and practical knowledge and skills of drafting and design, logistics, materials \& supply chain management, and engineering technologies. The progression of the course will prepare students to obtain several credentials. Topics covered include introduction to drafting and design, geometric construction, freehand drawing and sketching, introduction to engineering math, introduction to mechanical drawing and design, dimensioning, introduction to architecture, introduction to civil drafting, introduction to electronic drafting, CAD, ergonomics, inventory management, procurement operations, receiving, storage and put-away, order fulfillment, packing, shipping and transportation, management, economics, knowledge of engineering, ethics of engineering, teamwork, engineering graphics, engineering problem solving and design process, modeling, manufacturing and industrial systems, manufacturing processes, CAM, power and energy, mechanical advantage and mechanisms, fluid power systems, green energy, machine controls and automated systems, properties of materials, statics and dynamics,, kinematics, total quality control, and precision measurement for industry. This class is open to students who are enrolled in the Manufacturing Technology Career Pathway. (Open to Grade 10)

This two-credit course is intended to provide theoretical and practical knowledge and skills of machinist, metal working and welding technologies. The progression of the course will prepare students to obtain several credentials. Topics covered include safety, principals of welding, weld symbol interpretation, welding drawing, shielded metal arc welding, gas metal arc welding, flux corded arc welding, gas tungsten arc welding, manual oxy-fuel gas cutting, mechanized plasma, manual plasma arc cutting, layout work, part inspection, bench work, drill presses, grinding machines, lathes, milling machines, power saw, machine maintenance, metallurgy, reading charts, references and blueprints, and CNC programming. This class is open to students who are enrolled in the Manufacturing Technology Career Pathway. (Open to Grade 11)

MANUFACTURING TECHNOLOGIES III
2 CREDITS
This two-credit course is intended to provide theoretical and practical knowledge and skills of electromechanical technician and electronic engineering. The progression of the course will prepare students to obtain several credentials. Topics covered include safety, basic electricity, electrical reporting, electronic systems measurement, National Electrical Code, electrical resistance, DC motors, basic logic functions, Programmable Logic Controllers', robotics, electrical quantities and components, instrumentation, Ohm's Law/power, series circuits, parallel circuits, series-parallel circuits, alternating current, oscilloscope, inductance, inductive reactance, RI circuits, AC current, transformers, capacitance, capacitive reactance, RC circuits, resistor-inductor-capacitor circuits, resonance, soldering, resoldering, diodes, power supplies, transistor characteristics, small signal amplifiers, operational amplifiers, basic digital electronics, troubleshooting, electronic communications, motors, microcontrollers, and history of electronics. This class is open to students who are enrolled in the Manufacturing Technology Career Pathway. (Open to Grade 12)

This one credit course is intended for general introduction to the knowledge and skills in the areas of plumbing, carpentry, masonry, and electrical work. This course is available to any $\mathbf{9 , 1 0}, \mathbf{1 1}$, or 12 grade students to fulfill an elective credit.

VEHICLE MAINTENANCE
1 CREDIT
This one credit course is intended for general introduction to the knowledge and skills in the areas or vehicle systems, measurement, trade related mathematics, tools, engines, and parts. This course is available to any $9,10,11$, or $\mathbf{1 2}$ grade students to fulfill an elective credit.

## 722

METAL TECHNOLOGIES
1 CREDIT
This one credit course is intended for general introduction to the knowledge and skills in the areas of welding, machinery, layout work and part inspection. This course is available to any $\mathbf{9 , 1 0}, \mathbf{1 1}$, or 12 grade students to fulfill an elective credit.

## 732

ENGINEERING
1 CREDIT
This one credit course is intended for general introduction to the knowledge and skills in the areas of drafting, design drawing, CAD , and robotics. This course is available to any $\mathbf{9 , 1 0 , 1 1}$, or 12 grade students to fulfill an elective credit.

723
VISUAL COMMUNICATIONS I
1 CREDIT
This introductory course is designed to provide experiences with basic graphic arts process and photography. Students will be introduced to the fundamentals of design/desktop publishing, layout, prepress operations, offset processes, post-press operations, some of which will relate to academic or business classes, and the skills of photography in camera operation, producing film and prints.

VIDEO PRODUCTION
1 CREDIT
This course provides an introductory overview of the techniques, editing, and producing of video mediums. This course is an introduction to television studio and field production. The course will acquaint students with the technical and aesthetic concepts involved in successful studio and field production. Students will develop skills through a series of in-class and limited after-class exercises. The course will also require the students to capture, develop, orchestrate, operate, and deliver video mediums within the high school domain. [Prerequisite: 723-Visual Communications I; Limited seating available; open to grades 10-12] medium within the high school domain. [Prerequisite: 723-Visual Communications I; 782-Video Production; limited seating; open to grades 11-12]


## MATH/SCIENBE BAREER PATH

| SUBJECT | \# | 9 ${ }^{\text {TH }}$ GRADE |  | \# | 10 ${ }^{\text {TH }}$ GRADE |  | \# | 11 ${ }^{\text {th }}$ GRADE |  | \# | $12^{\text {th }}$ GRADE |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| ENGLISH | $\begin{aligned} & 130 \\ & 130 \mathrm{~A} \end{aligned}$ | English 9 English 9 HR | $\begin{aligned} & 1 \\ & 1 \end{aligned}$ | $\begin{array}{\|l\|} \hline 140 \\ 140 \mathrm{~A} \end{array}$ | American Lit. American Lit. HR | $\begin{aligned} & 1 \\ & 1 \end{aligned}$ | $\begin{aligned} & 155 \\ & 155 \mathrm{~A} \\ & 156 \\ & \hline \end{aligned}$ | Select One: <br> Multicultural Lit. <br> Multicultural Lit. HR <br> AP Lang. \& Comp. | $\begin{aligned} & 1 \\ & 1 \\ & 1 \\ & \hline \end{aligned}$ | $\begin{aligned} & 166 \\ & 166 \mathrm{~A} \\ & 165 \\ & \hline \end{aligned}$ | Select One: <br> Brit. Lit. <br> Brit. Lit. HR <br> AP Literature \& Comp. | 1 1 1 |
| SOCIAL <br> STUDIES | $\begin{aligned} & 230 \\ & 230 \mathrm{~A} \end{aligned}$ | Amer. Cult. II Amer. Cult. II HR | $\begin{aligned} & 1 \\ & 1 \end{aligned}$ | $\begin{aligned} & \hline 240 \\ & 240 \mathrm{~A} \end{aligned}$ | Amer. Cult. III AP US History | $\begin{aligned} & 1 \\ & 1 \end{aligned}$ | $\begin{aligned} & 250 \\ & 255 \end{aligned}$ | World Cult. AP World History | $\begin{aligned} & 1 \\ & 1 \end{aligned}$ | $\begin{aligned} & 260 \\ & 265 \\ & \hline \end{aligned}$ | Select One: <br> Am. Gov/Economics <br> AP US Government | 1 1 |
| MATH | $\begin{aligned} & 431 \\ & 430 \\ & 441 \mathrm{~A} \end{aligned}$ | Select One: <br> Algebra I Geometry HR Geometry | $\begin{aligned} & 1 \\ & 1 \\ & 1 \end{aligned}$ | $\begin{aligned} & 441 \\ & 440 \\ & 451 \end{aligned}$ | Select One: <br> Geometry <br> Algebra II HR <br> Algebra II | $\begin{aligned} & 1 \\ & 1 \\ & 1 \end{aligned}$ | $\begin{aligned} & 451 \\ & 450 \\ & 450 \mathrm{~A} \\ & 453 \end{aligned}$ | Select One: <br> Algebra II <br> Pre Calculus <br> Pre-Calculus HR Statistics | $\begin{aligned} & 1 \\ & 1 \\ & 1 \\ & 1 \end{aligned}$ | $\begin{aligned} & 453 \\ & 460 \\ & 465 \end{aligned}$ | Select One: <br> Statistics <br> Calculus <br> AP Calculus | 1 1 1 |
| SCIENCE <br> Option \#1 | 531 | Gen. Science 9 | 1 | $541$ <br> 541A | Inq. Biology w/Lab <br> or <br> Inq. Biology w/Lab H (Biology required if not taken in $9^{\text {th }}$ grade) | $\begin{aligned} & 11 / 2 \\ & 11 / 2 \end{aligned}$ | $\begin{array}{\|l\|} \hline 551 \\ 551 \mathrm{~A} \\ 563 \end{array}$ | Chemistry w/Lab or Chemistry w/Lab HR or AP Bio w/Lab | $\begin{aligned} & 11 / 2 \\ & 11 / 2 \\ & 11 / 2 \end{aligned}$ | $\begin{aligned} & 563 \\ & 561 \\ & 570 \\ & 571 \end{aligned}$ | Select One: <br> AP Biology w/Lab <br> Physics w/Lab <br> AP Physics 1:Alg.-Based <br> AP Physics 2:Alg-Based | $\begin{array}{ll} 1 & 1 / 2 \\ 1 & 1 / 2 \\ 1 & 1 / 2 \\ 1 & 1 / 2 \end{array}$ |
| Option \#2 | 541A | Inq. Bio. w/Lab HR | $11 / 2$ | $\begin{aligned} & 551 \\ & 551 \mathrm{~A} \\ & 563 \end{aligned}$ | Chem. w/Lab or Chem. w/Lab HR and/or AP Biology w/Lab | $\begin{aligned} & 11 / 2 \\ & 11 / 2 \\ & 11 / 2 \end{aligned}$ | $\begin{aligned} & 565 \\ & 561 \\ & 570 \end{aligned}$ | AP Chem. w/Lab <br> and <br> Physics w/Lab <br> or <br> AP Physics 1:Alg.-Based | $\begin{gathered} 11 / 2 \\ 11 / 2 \\ 11 / 2 \end{gathered}$ | 565 | Chemistry w/Lab | $11 / 2$ |
|  | OTHER SCIENCE OPTIONS SHOULD BE DISCUSSED WITH GUIDANCE AND THE SCIENCE DEPARTMENT |  |  |  |  |  |  |  |  |  |  |  |
| LANGUAGE | $\begin{aligned} & 330 \\ & 331 \\ & 332 \\ & 341 \mathrm{~A} \\ & \hline \end{aligned}$ | Select One: <br> French I <br> Spanish I <br> German I <br> Spanish II | $\begin{aligned} & 1 \\ & 1 \\ & 1 \\ & 1 \end{aligned}$ | $\begin{aligned} & 333 \\ & 340 \\ & 341 \\ & 351 \\ & \hline \end{aligned}$ | Select One: <br> German II <br> French II <br> Spanish II <br> Spanish III | 1 1 1 1 | Students may select additional language credits as electives. |  |  | Students may select additional language credits as electives. |  |  |
| PHYS. ED | $\begin{array}{\|l\|} \hline 40 \\ 41 \\ 99 \\ \hline \end{array}$ | Boys PE <br> Girls PE <br> Advanced Gym | $\begin{aligned} & 1 / 2 \\ & 1 / 2 \\ & 1 / 2 \end{aligned}$ | $\begin{array}{\|l} \hline 40 \\ 41 \\ 99 \\ \hline \end{array}$ | Boys PE Girls PE Advanced Gym | $\begin{aligned} & 1 / 2 \\ & 1 / 2 \\ & 1 / 2 \end{aligned}$ | $\begin{aligned} & \hline 60 \\ & 61 \\ & 99 \\ & \hline \end{aligned}$ | Boys PE Girls PE <br> Advanced Gym | $\begin{aligned} & 1 / 2 \\ & 1 / 2 \\ & 1 / 2 \\ & \hline \end{aligned}$ | $\begin{array}{\|l} \hline 60 \\ 61 \\ 99 \\ \hline \end{array}$ | Boys PE Girls PE <br> Advanced Gym | $\begin{aligned} & 1 / 2 \\ & 1 / 2 \\ & 1 / 2 \end{aligned}$ |
| OTHER |  |  |  | 825 | Career \& Consumer Skills | 1/2 | 52 | Health | 1/2 |  |  |  |




## ART CAREER PaTHWAY

| SUBJECT | \# | 9 ${ }^{\text {TH }}$ GRADE |  | \# | 10 ${ }^{\text {TH }}$ GRADE |  | \# | $11^{\text {th }}$ GRADE |  |  | 12 ${ }^{\text {th }}$ GRADE |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| DESIGN | $\begin{aligned} & 935 \\ & 723 \end{aligned}$ | Art Foundations <br>  <br> Visual <br> Communications I | $\begin{aligned} & 1 \\ & 1 \end{aligned}$ | 940 | Studio Art I | 1 1 | 744 | Studio Art II | 1 | $\begin{aligned} & 754 \\ & 771 \\ & 654 \end{aligned}$ | Studio Art III <br>  <br> Architectural/3D <br>  <br> Design <br> \&/or <br> Entrepreneurship | 1 <br> 2 <br> 1 |
| FINE ART | $\begin{aligned} & 935 \\ & 955 \end{aligned}$ | Art Foundations <br>  <br> Digital <br> Photography I | $\begin{aligned} & 1 \\ & 1 / 2 \end{aligned}$ | $\begin{gathered} 940 \\ 946 \\ 956 \end{gathered}$ | Studio Art I <br> \&/or <br> Mixed Media <br> Design <br> \&/or <br> Digital Photography II | 1 <br> $1 / 2$ <br> $1 / 2$ | $\begin{aligned} & 744 \\ & 945 \end{aligned}$ | Studio Art II <br>  <br> Watercolor Design | $1$ $1 / 2$ | 963 | Advanced Studio Art | 2 |
| CERAMICS | 920 | Introduction to Ceramics |  | 943 | Ceramics I | 1/2 | 944 | Ceramics II | 1/2 | 961 | Ceramics III | 1/2 |



## BUSINESS PAREER PATHWAY



| SUBJECT | \# | $9^{\text {TH }}$ GRADE |  | \# | $10^{\text {TH }}$ GRADE |  | \# | $11^{\text {th }}$ GRADE |  | \# | $12^{\text {th }}$ GRADE |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Music Education | $\begin{aligned} & 925 \\ & 927 \end{aligned}$ | Band <br>  <br> Chorus <br>  <br> Foreign <br> Language | $\begin{gathered} 1 \\ 1 / 2 \\ 1 \end{gathered}$ | $\begin{aligned} & 925 \\ & 927 \end{aligned}$ | Band <br>  <br> Chorus <br>  <br> Foreign Language | $\begin{array}{\|c\|} \hline 1 \\ 1 / 2 \\ 1 \end{array}$ | $\begin{array}{\|l} \hline 925 \\ 926 \\ 971 \end{array}$ | Band <br>  <br> Chorus <br>  <br> Music Theory 1 | 1 <br> 1 <br> $1 / 2$ | $\begin{aligned} & 925 \\ & 926 \\ & 974 \\ & 931 \end{aligned}$ | Band <br>  <br> Chorus <br>  <br> Music Theory II <br>  <br> Stage Crew | 1 <br> 1 <br> $1 / 2$ <br> $1 / 2$ |
| Music Performance | $\begin{array}{\|c} 925 \\ 926 \\ 971 \end{array}$ | Band <br>  <br> Chorus <br>  <br> Foreign <br> Language <br>  <br> Music Theory I | 1 <br> 1 <br> $1 / 2$ | $\begin{array}{\|} \hline 925 \\ 926 \\ 974 \end{array}$ | Band <br>  <br> Chorus <br>  <br> Foreign Language <br>  <br> Music Theory II | 1 <br> 1 <br> $1 / 2$ | $\begin{aligned} & 925 \\ & 926 \\ & 979 \\ & 931 \end{aligned}$ | Band <br>  <br> Chorus <br>  <br> Music theory III \& Stage Crew | 1 <br> 1 <br> $1 / 2$ <br> $1 / 2$ | $\begin{aligned} & 925 \\ & \& \\ & 926 \\ & \\ & 931 \end{aligned}$ | Band <br>  <br> Chorus <br> Stage Crew | 1 <br> 1 <br> $1 / 2$ |
| Music Theater | $\begin{aligned} & 926 \\ & 931 \end{aligned}$ | Chorus <br>  <br> Stage Crew <br>  <br> Foreign <br> Language | $\begin{gathered} 1 \\ 1 / 2 \\ 1 \end{gathered}$ | $\begin{aligned} & 926 \\ & 931 \\ & 971 \end{aligned}$ | Chorus <br>  <br> Stage Crew <br>  <br> Music Theory I | $\begin{aligned} & 1 \\ & 1 / 2 \\ & 1 / 2 \end{aligned}$ | $\begin{aligned} & 926 \\ & 928 \\ & 974 \end{aligned}$ | Chorus <br>  <br> Theater Arts <br>  <br> Music Theory II | $\begin{gathered} 1 \\ 1 / 2 \\ 1 / 2 \end{gathered}$ | $\begin{aligned} & 926 \\ & 928 \\ & 931 \end{aligned}$ | Chorus <br>  <br> Theater Arts <br>  <br> Stage Crew | $\begin{aligned} & 1 \\ & 1 / 2 \\ & 1 / 2 \end{aligned}$ |
| Music Therapy | $\begin{aligned} & 925 \\ & 926 \end{aligned}$ | Band <br>  <br> Chorus <br>  <br> Foreign <br> Language | $1$ | $\begin{aligned} & 925 \\ & 926 \\ & 971 \end{aligned}$ | Band <br>  <br> Chorus <br>  <br> Music Theory I <br>  <br> Foreign Language | 1 $1 / 2$ 1 | $\begin{aligned} & 925 \\ & 926 \\ & 974 \\ & 556 \end{aligned}$ | Band <br>  <br> Chorus <br>  <br> Music Theory II <br>  <br> Anatomy \& Physiology | 1 <br> 1 <br> $1 / 2$ <br> 1 | $\begin{aligned} & 925 \\ & 926 \\ & 979 \\ & 261 \end{aligned}$ | Band <br>  <br> Chorus <br>  <br> Music Theory III \& Psychology | 1 $1 / 2$ $1 / 2$ |
| Light/Sound Tech | $\begin{aligned} & 931 \\ & 723 \\ & 928 \end{aligned}$ | Stage Crew <br>  <br> Visual Comm. I <br>  <br> Theater Arts | $1 / 2$ <br> 1 $1 / 2$ | $\begin{aligned} & 931 \\ & 928 \end{aligned}$ | Stage Crew <br>  <br> Theater Arts | $\begin{aligned} & 1 / 2 \\ & 1 / 2 \end{aligned}$ | $\begin{aligned} & 931 \\ & 782 \end{aligned}$ | $\begin{aligned} & \text { Stage Crew } \\ & \& \\ & \text { Video Productions } \end{aligned}$ | $\begin{gathered} 1 / 2 \\ 1 \end{gathered}$ | $\begin{aligned} & 931 \\ & 786 \\ & 955 \end{aligned}$ | Stage Crew <br>  <br> Video Broadcasting <br>  <br> Digital Photography I | $1 / 2$ 2 $1 / 2$ |
| Scenery Designer | $\begin{aligned} & \hline 931 \\ & 935 \\ & 723 \end{aligned}$ | Stage Crew <br>  <br> Art Foundations <br>  <br> Visual <br> Comm. I | $1 / 2$ 1 1 | $\begin{aligned} & 931 \\ & 946 \end{aligned}$ | Stage Crew <br>  <br> Mixed Media Design | $\begin{aligned} & 1 / 2 \\ & 1 / 2 \end{aligned}$ | $\begin{aligned} & 931 \\ & 955 \end{aligned}$ | Stage Crew <br> \&/or <br> Digital Photography I | $\begin{aligned} & 1 / 2 \\ & 1 / 2 \end{aligned}$ | $\begin{aligned} & 931 \\ & 956 \end{aligned}$ | Stage Crew <br>  <br> Digital Photography II | $1 / 2$ $1 / 2$ |
| 47 |  |  |  |  |  |  |  |  |  |  |  |  |

$9^{\text {th }}$ Grade

## $10^{\text {th }}$ Grade

$\mathbf{9}^{\text {th }}$ Grade Electives plus:
651-Accounting I (1)
734-Auto Technologies I (2)
567-Biology Lab Tech (1/2)
643-Bus. \& Personal Law (1)
943 -Ceramics I ( $1 / 2$ )
844-Child Development (1)
976-Comp. Programming II (1) 977-Comp. Programming III (1) 840-Culinary Pastry Arts (1)
956-Digital Photography II (1/2)
340-French II (1)
568-General Science Lab Tech (1/2)
333-German II (1)
851-Gourmet Foods (1)
642-Intro to Business (1)
735-Manufacturing Technologies I (2)
732-Metal Tech I (1)
946-Mixed Media Design (1⁄2)
974-Music Theory II (1/2)
981-SAT Prep Math (1/2)
980-SAT Prep Critical Reading (1/2)
341-Spanish II (1)
940-Studio Art I (1)
843-Textile \& Design (1)
945-Watercolor Painting (1/2)
782-Video Production (1)

## $11^{\text {th }}$ Grade

$\mathbf{9}^{\text {th }} \boldsymbol{\&} \mathbf{1 0}^{\text {th }}$ Grade Electives plus:
661-Accounting II (1)
563-AP Biology/Lab (11/2)
972-AP Computer Science A (1)
156-AP English Lang./Comp. (1)
570-AP Physics 1: Algebra-Based
255-AP World History (1)
556-Anatomy \& Phys. (1)
556A-Anatomoy \& Phys. Honors (1)
744-Auto Technologies II (2)
664-Bus. Comm. \& Procedures (1)
944-Ceramics II (1/2)
978-Computer Programming IV (1)
755-Construction Trades I (2)
855-Early Childhood Education I (1)
654-Entrepreneurship (1)
659-Fashion Marketing (1/2)
863-Fashion Exploration (1)
852-FCS Lab Technician (1/2)
771-Manufacturing Technologies II (2)
979-Music Theory III ( $1 / 2$ )
821-Nutrition \& Wellness (1)
261-Psychology (1/2)
351-Spanish III (1)
657-Sports \& Entertaining Marketing (1/2)
655-Marketing (1)
950-Studio Art II (1)
786-Video Broadcasting (2)
$12^{\text {th }}$ Grade
$\mathbf{9}^{\text {th }}, \mathbf{1 0}^{\text {th }} \& 11^{\text {th }}$ Grade Electives $p l u s:$
861-Advanced Cooking (1)
963-Advanced Studio Art (2)
465-AP Calculus (1)
565-AP Chemistry ( $1^{1 ⁄ 2}$ )
165-AP English Lit./Comp. (1)
571-AP Physics 2: Algebra-Based (112)
365-AP Spanish Language \& Culture (1)
255-AP World History (1)
754-Auto Technologies III (2)
961-Ceramics III (1/2)
566-Chemistry Lab Tech (1/2)
865-Early Childhood Education II (3)
864-Creative Construction (1)
772-Manufacturing Technologies III (2)
569-Physics Lab Tech (1/2)
361-Spanish IV (1)
962-Studio Art III (1)

## What are Career Clusters?



The sixteen Career Clusters were developed to relate occupations to broad industries. Within each cluster are several "pathways," which provide a more focused category within the cluster. These are useful to educators, industry groups, employers, parents, and others. Some occupations will occur in more than one cluster or pathway.

## Career Clusters prepare all students

## for colleges and careers.

Educators helping students learn career management skills can encourage students to explore a range of career options by focusing attention on broad areas (clusters or pathways), rather than specific occupations. Since each cluster includes occupations with a range of skill and training requirements, students can concentrate on groups of occupations most suitable to their individual needs.

Skills and knowledge required for the occupations in each cluster have been identified. This information can be used by educators to help ensure that students are acquiring the qualifications they need for employment and by industry groups and employers to help structure job descriptions and employee training programs. Parents can use cluster information to learn about qualifications and training and to help their children explore career possibilities.


## 16 USDOE Career Clusters - Brief Descriptions

$\left.$ | The production, processing, marketing, distribution, financing, and development of agricultural |
| :--- |
| commodities and resources including food, fiber, wood products, natural resources, horticulture, and |
| other plant and animal products/resources. | \right\rvert\, | Careers in designing, planning, managing, building and maintaining the built environment. |
| :--- |
| Designing, producing, exhibiting, performing, writing, and publishing multimedia content including |
| visual and performing arts and design, journalism, and entertainment services. |

## 81 Pathways within the 16 USDOE Career Clusters

|  | Food Products and Processing Systems; Plant Systems; Animal Systems; Power, <br> Structural \& Technical Systems; Natural Resources Systems; Environmental Service <br> Systems and Agribusiness Systems |
| :--- | :--- |

