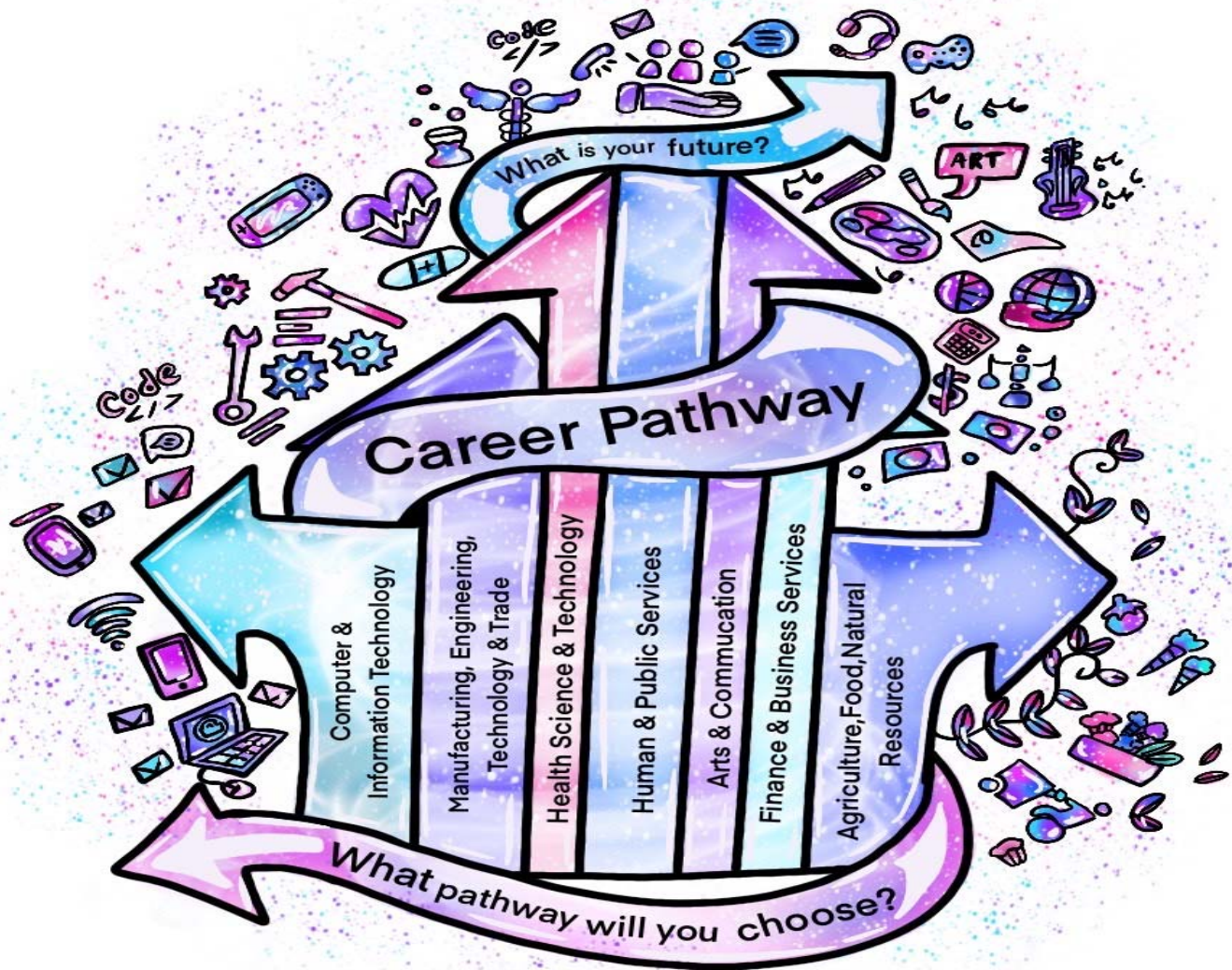


Fenton High School College & Career Program Guide



2020-2021 School Year

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Mission Statement

To cultivate successful, passionate learners through Rigor, Relevance, and Relationships.

District Information

Address: 1000 W. Green Street,
Bensenville, IL 60106

Phone: 630-766-2500 **Fax:** 630-860-8627

Superintendent: Mr. James Ongtengco

Principal/ Associate Superintendent:

Mr. Jovan Lazarevic

Board of Education Members:

Paul Wedemann, President

Mary Ann Payton-Howell, Vice President

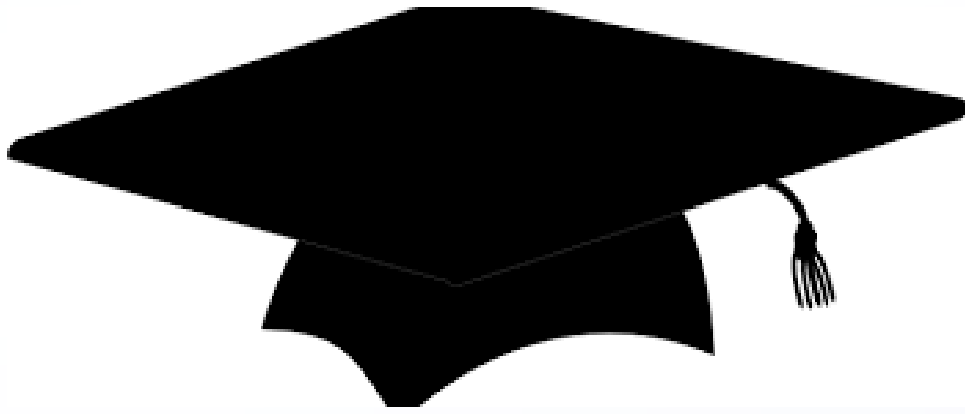
Patty Jalowiec, Secretary

Leonel Figueroa

Juliet Rago

Jacci Ramirez

Kit Tingpalpong



Graduation Requirements

Forty-five (45) credits are necessary for graduation. A unit of credit is given for the successful completion of a semester's work, which includes music and physical education. **PLEASE NOTE: If a student repeats a course (other than a Physical Education or another designated course) for which he/she has received credit, additional credit will not be issued.** In addition to the credit requirements, the following subjects must be successfully completed in order to graduate:

Classroom Driver Education: Will be taught as part of sophomore Physical Education.

Consumer Education: One (1) semester

English: Eight (8) Semesters

Fine and Applied Arts: Two (2) semesters - to be chosen from applied technology, art, business education, world languages, family and consumer sciences, music, or theater.

Health: (Freshmen) - One (1) semester

Mathematics: Six (6) semesters - All juniors must be enrolled in a mathematics class

Physical Education: One (1) semester freshman year and two (2) semesters sophomore through senior year

Science: Four (4) semesters

Social Studies: Six (6) semesters

Writing: Two (2) writing-intensive courses are required. These requirements are met through the English Department.

Community Service: Students must complete twenty-five hours of community service as part of their graduation requirement.

Registration Procedures:

Fenton HS students participate in course selection in January and February in collaboration with their Counselors. Course request changes will be made only as course availability permits.

Course Withdrawal:

A Student may request to withdraw from a course per guidelines in the Student Handbook.



Independent Study:

Independent Study is designed for the self-motivated, responsible students who wish to expand

their knowledge in an area in which they are keenly interested. The following guidelines must be

followed by the student interested in pursuing an Independent Study:

1. An Independent Study course must follow the same classroom requirements as a regular course.
2. In order to apply for Independent Study, the student must:
 - i. Find a teacher to work with him/her on the project.
 - ii. Write a proposal setting forth the specific goals to be accomplished with completion dates identified. The proposal will also include the methodology necessary for completing the goals.
 - iii. After the teacher initially approves the student's written proposal, the Division Leader in that area must also approve the proposal.
 - iv. All independent study paperwork must be completed and submitted by the counselor to the Director of Curriculum for final approval within the first three weeks of the course.



Grade Point Average

Un-weighted

Grades in a one-unit course earn grade points as follows: A=4, B=3, C=2, D=1. The points earned are divided by the number of courses attempted to determine the GPA.

Weighted

Grades are waited in both Accelerated and AP courses. Grades in a course earn additional points as follows. The points earned are divided by the number of courses attempted to determine the GPA.

AP	Grade	Regular	Accelerated
5	A	4	4.5
	B	3	3.5
4	C	2	2.5
3	D	1	1
1	F	0	0

Accelerated Coursework:

Admission to accelerated courses will be based on the following approval:

1. Proficiency in all prerequisite courses
2. Teacher recommendation
3. Meet requisite standardized achievement cut scores as designated by the Division Leader and Director of Curriculum.
4. Administrative approval

Advanced Placement Coursework:

Courses are offered in the tenth, eleventh and twelfth grades. Advanced Placement courses are rigorous, college-level studies approved and monitored by the College Board. All students are encouraged/expected to take the examination given by the College Board in the spring.

ADVANCED PLACEMENT (AP) COURSES:

Art & Music

AP 2-D Art & Design (Photography)
AP 2-D Art & Design (Cartooning, Digital, Drawing & Painting)
AP 3-D Art & Design (Ceramics, Jewelry & Sculpture)
AP Art History
AP Music Theory

English

AP English 3 Language & Composition
AP English 4 Literature & Composition

World Languages

AP French Language & Culture
AP German Language & Culture
AP Spanish Language & Culture

Mathematics

AP Statistics
AP Calculus AB
AP Calculus BC
AP Computer Science Principles
AP Computer Science A

Science

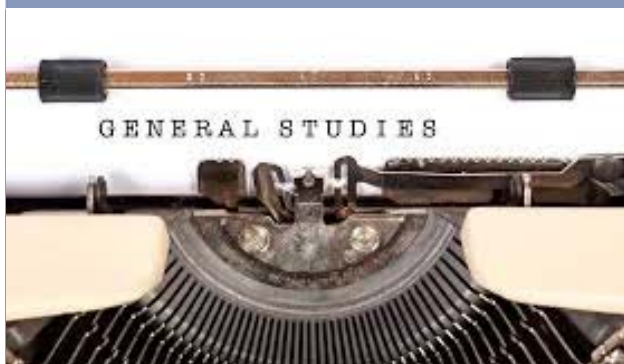
AP Physics 1
AP Biology
AP Chemistry
AP Environmental Science

Social Studies

AP United States History
AP World History
AP United States Government & Politics
AP Microeconomics
AP Macroeconomics
AP Psychology

Advanced Placement (AP) Courses provide students the opportunity to experience college level coursework prior to entering the college setting. Rigorous classroom experiences ensure students are prepared for post-secondary education and/or training in any career field. It is encouraged that students discuss these opportunities with their teachers and counselors to determine any AP courses that may align with their post-secondary goals and desires.

Students who take an advanced placement course and earn a score of three or higher on the exam may be eligible for college credit.



College Entrance Recommendations & Requirements

Students who intend to enter college should check admission requirements with the college or university in which they are interested. Students should make sure they are using current information. Wise program planning can achieve solid college preparation and also include valuable experiences in the practical arts. Students who plan to attend college/universities, especially public four-year schools in Illinois, must meet minimum requirements established by the state of Illinois Board of Higher Education. In general, these courses are also the minimum prerequisites to enter a private four-year school.

English

A Minimum of 8 Credits to include:

- (2 credits) English 1
- (2 credits) English 2
- (2 credits) English 3 or AP English 3
- (2 credits) English 4

Mathematics

A Minimum of 6 Credits to include:

- (2 credits) Math 1, Algebra 1, or Accelerated Coursework
- (2 credits) Math 2, Geometry, or Accelerated Coursework
- (2 credits) Algebra 2, Accelerated Course, or AP Coursework

Science

A Minimum of 6 Credits to include:

- (2 credits) Accelerated Biology or Biology
- (2 credits) Accelerated Chemistry or Chemistry
- (2 credits) Science electives

Social Studies

A Minimum of 6 Credits to include:

- (2 credits) Introduction to Social Science
- (2 credits) U. S. History or AP U. S. History
- (2 credits) World History or AP World History

World Languages or Career Exploration Courses

A Minimum of 4 credits to be selected for these areas. Many four-year colleges require at least two years of the same World Language.

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ENGLISH

Philosophy

The study of English encompasses all areas of communication reading, writing, speaking, and listening - as well as the various literary genres - the short story, the novel, poetry, and drama. The Fenton High School English program balances essential skill practice with interpretive analysis in order to provide the individual student with the understanding of language, literature, and media necessary to think critically, communicate effectively, and solve problems creatively. While it is the teacher's role to motivate the student and to stimulate learning, it is the student's responsibility to participate actively and to work willingly in order to develop his or her potential. Thus, the refinement of essential communication skills depends upon commitment on the part of both the student and the teacher. In every class, the student is involved in self-awareness and critical thinking as he or she reads, writes, listens, and synthesizes concepts.

Requirements and Recommendations

Eight semesters (eight credits) of English are required of all students. All students must satisfactorily complete: English 1 English 2 or Accelerated English 2, English 3, American Heritage, or AP English 3 AP English 4 or two other English course offerings Students meeting the following criteria may require an Academic Literacy course that does not count toward the eight credit English requirement: a) Teacher recommendation b) Standardized achievement cut scores as designated by the Division Leader and Director of Curriculum.



9th Grade English Course Descriptions:

English 1

English 1 program provides an extensive introduction to skills essential to the English curriculum. During semester 1, students analyze the short story and the novel as forms of literature and work on grammar, paragraph development, and the construction of an essay. During semester 2, poetry, mythology, and drama are studied and students continue composition practice with essay writing. Both semesters provide intensive work with reading skills, vocabulary, sentence structure, and writing intensive content.

Prerequisites: None

Semester (s): 2 **Credit (s):** 2

Course Code: 1st Semester - 5001, 2nd Semester - 5002

Grade Level (s): 9

Accelerated English 1

This accelerated course combines the analysis of challenging literature with the development and refinement of vocabulary acquisition and writing skills through expanded English 1 reading list. Designated summer and winter reading projects are required. Students are selected for this course based upon standardized test scores, teacher recommendations, and samples of written work.

Prerequisites: None

Semester (s): 2 **Credit (s):** 2

Course Code: 1st Semester - 2006 2nd Semester - 2007

Grade Level (s): 9

English 9

This course is designed to help students with improvement in the areas of reading comprehension, vocabulary, and written communication skills. Students will analyze fiction, the short story and the novel. Students will be introduced to grammar and essay writing.

Prerequisites: Placement determined by IEP Team

Semesters: 2 **Credits:** 2

Course Code: 1st Semester - 00363 2nd Semester - 00364

Grade Levels: 9

English Life Skills

This special education English course is designed to meet the students at their current level and maximize their potential with a focus on functional language skills for life. Basic writing will be expanded for a variety of purposes, along with reading skills and study skills habits. These concepts have been designed with the intent to support the students in their other classes, as well as to support them to be as independent as possible in managing these skills outside the classroom. Students may be enrolled in this course for more than one year, depending on their ability. The curriculum is revised each year to suit the students who are enrolled and to build on the previous years' material.

Prerequisites: Placement determined by IEP Team

Semesters: 2 **Credits:** 2

Course Code: 1st Semester - 00223 2nd Semester - 00224

Grade Levels: 9, 10, 11, 12

9th Grade English Course Descriptions (Cont.):

English as a Second Language 1 Conversation & Literacy

This is a course for beginning English students. Students learn basic interpersonal communication skills for school and community survival so that all ESL students may have successful experiences at Fenton High School. Emphasis is on study skills which provide the means for success in regular courses when the student exits the ESL program.

Semesters: 2 Credits: 4

Course Code: 1st Semester - 4519-4521, 2nd Semester - 4520-4522

Grade Levels: 9-12



10th Grade English Course Descriptions:

English 2

This course helps students improve reading, writing, speaking, listening and analytical skills through world literature and various genres. Assignments will focus on writing appropriately for different occasions, audiences, and purposes. Activities and assignments will afford students the opportunity to expand their vocabulary, refine their responses to literature and their understanding of various media, and improve their speaking, listening, and presentation skills. Writing assignments will continue to improve students' essay writing, research and rhetorical skills.

Prerequisites: English 1 or Accelerated English 1 Semester (s): 2 Credit (s): 2

Course Code: 1st Semester-5009, 2nd Semester-5010

Grade Level (s): 10

English 10

This course aligns directly with the Common Core for English Language Arts and is designed to help students improve reading, writing, speaking, listening and analytical skills through world literature and various genres. This course's content is modified to meet the needs of students with Individualized Education Plans. Assignments and activities will focus on various literary pieces and nonfiction, writing appropriately for different occasions, audiences, and purposes, and improving their speaking, listening, and presentation skills. In addition we continually practice and review grammar and vocabulary to improve reading, and writing skills.

Prerequisites: Placement determined by IEP Team
Semesters: 2 **Credits:** 2

Course Code: 1st Semester - 00121 2nd Semester - 00122

Grade Levels: 10

Accelerated English 2

This course helps students improve reading, writing, speaking, listening and analytical skills through world literature and various genres, at a more in depth level. This rigorous course is designed to help students prepare for Advanced Placement courses at the junior and senior level. Assignments will focus on writing appropriately for different occasions, audiences, and purposes. Activities and assignments will afford students the opportunity to expand their vocabulary, refine their responses to literature and their understanding of various media (including media bias), and improve their speaking, listening, and presentation skills. Writing assignments will continue to improve students' essay writing, research and rhetorical skills. Suggested requirements for enrolling in Accelerated English 2 are a recommendation from the English 1 instructor, Standardized test scores, and a possible writing sample.

Prerequisites: English 1 or Accelerated English 1
Semester (s): 2 **Credit (s):** 2

Course Code: 1st Semester 2008 2nd Semester 2009

Grade Level (s): 10

10th Grade English Course Descriptions (Cont.):

English Life Skills

This special education English course is designed to meet the students at their current level and maximize their potential with a focus on functional language skills for life. Basic writing will be expanded for a variety of purposes, along with reading skills and study skills habits. These concepts have been designed with the intent to support the students in their other classes, as well as to support them to be as independent as possible in managing these skills outside the classroom. Students may be enrolled in this course for more than one year, depending on their ability. The curriculum is revised each year to suit the students who are enrolled and to build on the previous years' material.

Prerequisites: Placement determined by IEP Team

Semesters: 2 **Credits:** 2

Course Code: 1st Semester - 00223 2nd Semester - 00224

Grade Levels: 9, 10, 11, 12

English as a Second Language 2

Level 2 builds on previously introduced skills and emphasizes reading and writing while continuing to develop oral proficiency in English. Specific reading skills such as using context clues, finding the main idea, drawing conclusions, and making inferences are developed. Intensive writing skills concentrate on sentence formation, using correct punctuation, and constructing simple, coherent paragraphs. The elements of literature are introduced.

Semesters: 2 **Credits:** 2

Course Code: 1st Semester - 4523 , 2nd Semester - 4524

Grade Levels: 9-12

11th Grade English Course Descriptions:

English 3

This two-semester course focuses on the study of American literature in combination with extensive practice in composition. Students will explore works of poetry, fiction, nonfiction, and drama spanning the course of American history from the colonial period to the present day. In addition, this course offers students the opportunity to increase writing skills in order to meet greater success in freshman college rhetoric classes.

Prerequisites: English 2 or Accelerated English 2

Semester (s): 2 **Credit (s):** 2

Course Code: 1st Semester-5178, 2nd Semester- 5179

Grade Level (s): 11

American Heritage

This combined studies course fulfills the requirements for both U. S. History and English 3. In addition to the traditional historical and literary content, the American Heritage course provides the opportunity for interested students to further explore the cultural and artistic influences that helped to shape our nation. This class will meet in a two-period block for two semesters.

Prerequisites: None

Semester (s): 2 **Credit (s):** 4

Course Code: 1st Semester-5193, 2nd Semester-5194

Grade Level (s): 11

11th Grade English Course Descriptions (Cont.):

AP English 3 - Language and Composition

The Advanced Placement section of this course will consist of the intrinsic elements of standard American literature and composition as well as practice and preparation for the English Language Advanced Placement Exam as outlined by the College Board. The selected literature of the class will deviate little from the standard course, but throughout the year more challenging supplementary texts and assignments will be utilized. Writing in this course will be focused more intently upon the subtle mastery of tone, style and writer's voice, and will be evaluated with appropriately elevated criteria. Suggested requirements for enrolling in AP English 3 are a recommendation from the English 2 instructor, standardized test scores, and a possible writing sample.

Prerequisites: English 1 or Accelerated English 1 and English 2 or Accelerated English 2

Semester (s): 2 Credit (s): 2

Course Code: 1st Semester-2013, 2nd Semester-2014

Grade Level (s): 11

English 11

This two-semester course focuses on the study of American literature in combination with extensive practice in composition. Students will explore works of poetry, fiction, nonfiction, and drama spanning the course of American history from the colonial period to the present day. This course is modified to meet needs of students with Individualized Education Plans. In addition we continually practice and review grammar and vocabulary to improve reading, and writing skills.

Prerequisites: Placement determined by IEP Team

Semesters: 2 **Credits:** 2

Course Code: 1st Semester - 00151 2nd Semester - 00152

Grade Levels: 11, 12

English Life Skills

This special education English course is designed to meet the students at their current level and maximize their potential with a focus on functional language skills for life. Basic writing will be expanded for a variety of purposes, along with reading skills and study skills habits. These concepts have been designed with the intent to support the students in their other classes, as well as to support them to be as independent as possible in managing these skills outside the classroom. Students may be enrolled in this course for more than one year, depending on their ability. The curriculum is revised each year to suit the students who are enrolled and to build on the previous years' material.

Prerequisites: Placement determined by IEP Team

Semesters: 2 **Credits:** 2

Course Code: 1st Semester - 00223 2nd Semester - 00224

Grade Levels: 9, 10, 11, 12

English as a Second Language 3

ESL 3 parallels the regular English 1 curriculum and provides an extensive review for improving communication skills on a level for students who are still developing their English proficiency. Students analyze the short story and the novel as forms of literature. Poetry, mythology, and drama are also studied. This course provides intensive work with reading skills, vocabulary development, sentence structure, and paragraph development culminating in the formation of an argumentative essay. This course meets the English 1 requirement for graduation.

Semesters: 2 **Credits:** 2

Course Code: 1st Semester - 4525 , 2nd Semester - 4526

Grade Levels: 9-12

12th Grade English Course Descriptions:

English 4

English 4 is designed as a year-long course which stresses the importance of college and career readiness. It is an inquiry-based course employing the use of essential questions to guide exploration and promote creativity. Content emphasizes interpersonal communication skills using clear, concise, and organized expression of ideas in both speaking and writing. Reading for this course will include nonfiction, fiction and media texts to encourage critical thinking. Semester I focuses on rhetorical skills emphasizing argument with a culminating research assignment to be applied and extended throughout the second semester. **Semester II includes special emphasis on project-based learning, synthesis skills, and independent learning strategies** with a culminating public presentation.

Prerequisites: English 1 or Accelerated English 1 and English 2 or Accelerated English 2, English 3 or AP English 3

Semester (s): 2 **Credit (s):** 2

Course Code: 1st Semester-5080, 2nd Semester- 5081

Grade Level (s): 12

English 12

English 12 is a year long course for students who require individualized attention in a smaller class setting to receive explicit reading and writing instruction. The course focuses on non-fiction reading to prepare students for careers and community college after high school. Students participate in a novel study each semester, essay writing, resume and cover letter writing, in addition to a career research project to help students outline the next steps from high school to post-secondary life.

Prerequisites: Placement determined by IEP Team

Semesters: 2 **Credits:** 2

Course Code: 1st Semester - 00181 2nd Semester - 00182

Grade Levels: 12

AP English 4-Literature and Composition

AP English Literature and Composition engages students in the careful reading and critical analysis of imaginative literature. Through the close reading of selected texts, students deepen their understanding of the ways writers use language to provide meaning and pleasure for their readers. As they read, students will consider a work's structure, style, and themes as well as smaller-scale elements such as the use of figurative language, imagery, symbolism, and tone. Suggested requirements for enrolling in AP English 4 are a recommendation from the English 3 instructor, standardized test scores, and a possible writing sample.

Prerequisites: English 1 or Accelerated English 1 and English 2 or Accelerated English 2, English 3 or AP English 3

Semester (s): 2 **Credit (s):** 2

Course Code: 1st Semester-2027, 2nd Semester- 2028

Grade Level: (s): 12

12th Grade English Course Descriptions (Cont.):

English as a Second Language 4

This course provides advanced level ESL students with intensive work in all areas of language arts. It incorporates technology presentational skills to prepare students to transition to the regular English classroom or employment. Students acquire skills to comprehend and respond to informational text. Through their reading, students acquire academic vocabulary and language which will help them experience success in their future careers and in college. As with all ESL courses, the four communication skills of listening, speaking, reading, and writing continue to be expanded through personal development, career, and community themes. During each unit, students create narrative and argumentative essays, presentations, and speeches that use evidence from the informational texts read in class. Research skills and technology presentational skills are integrated throughout the course. This course meets the English 2 requirement for graduation.

Semesters: 2 **Credits:** 2

Course Code: 1st Semester - 4527 , 2nd Semester - 4528

Grade Levels: 9-12

English Life Skills

This special education English course is designed to meet the students at their current level and maximize their potential with a focus on functional language skills for life. Basic writing will be expanded for a variety of purposes, along with reading skills and study skills habits. These concepts have been designed with the intent to support the students in their other classes, as well as to support them to be as independent as possible in managing these skills outside the classroom. Students may be enrolled in this course for more than one year, depending on their ability. The curriculum is revised each year to suit the students who are enrolled and to build on the previous years' material.

Prerequisites: Placement determined by IEP Team

Semesters: 2 **Credits:** 2

Course Code: 1st Semester - 00223 2nd Semester - 00224

Grade Levels: 9, 10, 11, 12



Literacy/Reading Course Descriptions:

Academic Literacy 1

Academic Literacy 1 will be taken in addition to English 1 to address the literacy needs of freshman students whose literacy skills are deemed below college and career readiness benchmarks. Academic Literacy 1 will provide support for those students with reading and writing assistance as they enter freshman year, equipping students with the additional literacy skills applicable across the content areas. Students will be immersed in literacy through intensive reading, writing, speaking, and listening activities that support the Common Core Standards and reinforce college and career readiness skills. The students will be enrolled in this course for a full year with the opportunity to test out mid-year. Those students who do not meet the exit requirements will remain in the course for the duration of the year. Students who successfully pass the course will receive one elective credit per semester.

Prerequisites: None

Semester (s): 2 **Credit (s):** 2

Course Code: 1st Semester - 2018 2nd Semester - 2019

Grade Level (s): 9

Reading 1

A year long course designed specifically for Special Education students who are significantly below grade level in reading. This course would provide students with specific instruction in the areas of: Phonemic awareness, phonics, fluency, vocabulary instruction, and comprehension instruction.

Prerequisites: Placement determined by IEP Team

Semesters: 2 **Credits:** 2

Course Code: 1st Semester - 00185 2nd Semester - 00186

Grade Levels: 9, 10, 11, 12

Academic Literacy 2

Academic Literacy 2 will be taken in addition to English 2 to address the literacy needs of sophomore students whose skills are deemed below college and career readiness benchmarks. Academic Literacy II will provide literacy support equipping students with additional literacy skills applicable across the content areas. Students will be immersed in literacy through intensive reading, writing, speaking, and listening activities that support the Common Core Standards and reinforce college and career readiness skills. The students will be enrolled in this course for a full year with the opportunity to test out mid-year. Those students who do not meet the exit requirements will remain in the course for the duration of the year. Students who successfully pass the course will receive one elective credit per semester.

Prerequisites: None

Semester (s): 2 **Credit (s):** 2

Course Code: 1st Semester-2023, 2nd Semester- 2024

Grade Level (s): 10

Bilingual Spanish Literacy Level 1

The course is designed to address specific literacy needs of students whose native language is Spanish by developing their literacy skills toward proficiency in Spanish. Literacy skills in reading, writing, and vocabulary will be developed. Language arts skills, such as phonics, reading comprehension, vocabulary in context, punctuation and grammar are developed. The instruction for the class is conducted entirely in Spanish, using authentic resources.

Course Code: 1st Semester- 4413, 2nd Semester- 4414

Semesters: 2 **Credits:** 2

Grade Levels: 9-12

Literacy/Reading Course Descriptions (Cont.):

Reading 2

This course designed for Special Education students who read significantly below grade level. Students enrolled in this course should be reading between the 5th and 7th grade reading level, or have taken Corrective Reading 1. This course will continue instruction in phonemic awareness, phonics, fluency, vocabulary instruction, and comprehension instruction. At this point in their development, students should have a firm foundation in their phonemic awareness and phonics skills, so the course will be more focused on fluency, comprehension, and vocabulary instruction.

Prerequisites: Placement determined by IEP Team

Semesters: 2 **Credits:** 2

Course Code: 1st Semester - 00187 2nd Semester - 00188

Grade Levels: 9, 10, 11, 12 (Depending on Reading Level)

Content Reading

Required of all ESL students, this course is designed to assist students in acquiring academic vocabulary and applying reading strategies to various content areas. Opportunities are provided for developing literacy skills through independent reading and writing.

Course Codes:

- ESL 1 CODE: 1st Sem: 4540 2nd Sem: 4541
- ESL 2 CODE: 1st Sem: 4542 2nd Sem: 4543
- ESL 3 CODE: 1st Sem: 4544 2nd Sem: 4545
- ESL 4 CODE: 1st Sem: 4605 2nd Sem: 4606

Semesters: 2 **Credits:** 2

Grade Levels: 9-12

English Elective Descriptions:

Theatre

This course is designed to increase a student's knowledge about all aspects of theatre: acting, makeup, costuming, scene design, publicity, theatre history, and play reading. Students are required to attend current Fenton High School theatre productions.

Prerequisites: None

Semester (s): 1 **Credit (s):** 1

Course Code: 5135

Grade Level (s): 9,10,11,12

Acting

This activity class teaches the fundamentals of acting: movement, improvisation, pantomime, and ensemble performance. Students will memorize and perform monologues and scenes. Since this is a performance class, student self-discipline is essential. Students are required to attend current Fenton High School theatre productions.

Prerequisites: None

Semester (s): 1 **Credit (s):** 1

Course Code: 5051

Grade Level (s): 9,10,11,12

Creative Writing

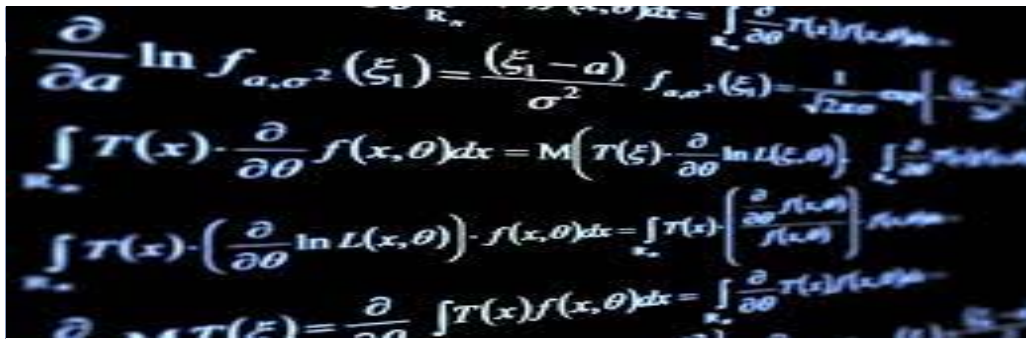
Creative Writing is an elective course for students who wish to express themselves imaginatively in writing. Reading models and keeping a journal furnish sources of ideas for expression; students work with prose forms of description and narration and writing techniques such as the use of images, sensory details, and symbols. Students work independently on completion of plays, short stories, and poetry; therefore, student self-discipline is required. Students are encouraged to submit their work to a publication.

Prerequisites: English 2 or Accelerated English 2

Semester (s): 1 **Credit (s):** 1

Course Code: 5105

Grade Level (s): 11,12



MATHEMATICS

Philosophy

The Mathematics Department provides for the mathematical needs of students with various degrees of ability, mathematical training, interest and initiative by offering a wide range of courses in which emphasis is placed on understanding, insights, and problem-solving, as well as on computational skills. The Mathematics Department believes that the beginning through advanced work in mathematics available at Fenton High School will contribute to the development of the students to their potential, and thus give them the necessary mathematical skills and concepts that will enable them to be competitive regardless of their future endeavors.

Integrated Math Course Descriptions:

Math 1

Math 1 is the first year of a three-year integrated mathematics course sequence. Concepts in this course are scaffolded, extending students' understanding and deepen their knowledge of algebra and functions, geometry, and statistical analysis. Students will be exposed to rich instruction that develops their conceptual understanding, problem-solving skills, critical thinking abilities, and application using technology-enriched programs. Learning is centered around the following six core mathematical pillars: Simplify, Solve & Evaluate, Symbolic & Graphical Representation, Spatial Reasoning & Analysis, Data Analysis, Probability, & Statistics, Mathematical & Logical Argumentation, and Social and Emotional Learning. This curriculum promotes active learning and prepares students for the next course in the sequence, Math 2.

Prerequisites: None

Semesters: 2 **Credits:** 2

Course Code: 1st Semester - 5433 , 2nd Semester - 5434

Grade Levels: 9



Math 2

Math 2 is the second course of a three-year integrated mathematics sequence. Concepts in this course builds and strengthens students' contextual knowledge of Algebra and Geometry, extending students' understanding and deepen their knowledge of algebra and functions, geometry, and probability. Students will be exposed to rich instruction that develops their conceptual understanding, problem-solving skills, critical thinking abilities, and application using technology-enriched programs. Learning is centered around the following six core mathematical pillars: Simplify, Solve & Evaluate, Symbolic & Graphical Representation, Spatial Reasoning & Analysis, Data Analysis, Probability, & Statistics, Mathematical & Logical Argumentation, and Social and Emotional Learning. This curriculum promotes active learning and prepares students for the next course in the sequence, Math 3.

Prerequisites: None

Semesters: 2 **Credits:** 2

Course Code: 1st Semester - 5435 , 2nd Semester— 5436

Grade Levels: 10

Integrated Math Course Descriptions (Cont.):

ESL / Bilingual Math 1

es el primer año de una secuencia integrada de tres años de cursos de matemáticas. Los conceptos en este curso están estructurados, ampliando la comprensión de los estudiantes y profundizando su conocimiento de álgebra y funciones, geometría y análisis estadístico. Los estudiantes estarán expuestos a una rica instrucción en inglés o español que desarrolla su comprensión conceptual, habilidades para resolver problemas, habilidades de pensamiento crítico y aplicación mediante programas enriquecidos con tecnología. La instrucción será estructurada para cumplir y ampliar la adquisición del idioma del alumno. El aprendizaje se centra en los siguientes seis pilares matemáticos básicos: Simplificar, resolver y evaluar, representación simbólica y gráfica, razonamiento y análisis espacial, análisis de datos, probabilidad y estadística, argumentación matemática y lógica y aprendizaje social y emocional. Este plan de estudios promueve el aprendizaje activo y prepara a los estudiantes para el próximo curso de la secuencia, Matemáticas 2.

Prerequisites: None

Semesters: 2 **Credits:** 2

Course Code: ESL Code 1st Semester - 4577 , 2nd Semester - 4578, Bilingual Code: 1st Semester-4573, 2nd Semester-4574

Grade Levels: 9

ESL / Bilingual Math 2

Es el segundo año de una secuencia integrada de tres años de cursos de matemáticas. Los conceptos en este curso construyen y fortalecen el conocimiento contextual de los estudiantes de Álgebra y Geometría, extendiendo la comprensión de los estudiantes y profundizando su conocimiento de álgebra y funciones, geometría y probabilidad. Los estudiantes estarán expuestos a una rica instrucción en inglés o español que desarrolla su comprensión conceptual, habilidades para resolver problemas, habilidades de pensamiento crítico y aplicación mediante programas enriquecidos con tecnología. La instrucción será estructurada para cumplir y ampliar la adquisición del idioma del alumno. El aprendizaje se centra en los siguientes seis pilares matemáticos básicos: Simplificar, resolver y evaluar, representación simbólica y gráfica, razonamiento y análisis espacial, análisis de datos, probabilidad y estadística, argumentación matemática y lógica y aprendizaje social y emocional. Este plan de estudios promueve el aprendizaje activo y prepara a los estudiantes para el próximo curso de la secuencia, Matemáticas 3.

Prerequisites: None

Semesters: 2 **Credits:** 2

Course Code: ESL Code: 1st Semester-4579, 2nd Semester-4580, Bilingual Code: 1st Semester-4575, 2nd Semester-4576

Grade Levels: 9

Algebra Course Descriptions:

Algebra 2

In addition to reviewing and extending many of the topics covered in Algebra 1, Algebra 2 extends the exploration of quadratics and linear systems. Additionally, Algebra 2 covers other topics such as: complex numbers, logarithms, rational functions, and select trigonometry topics. This course provides extensive review of both Algebra and Geometry topics in order to best prepare students for the SAT. It is recommended that each student own a TI-84 Plus calculator.

Prerequisites: Two semesters of Geometry or equivalent (a grade of C or better in both semesters of Geometry is highly recommended).

Semesters: 2 **Credits:** 2

Course Code: 1st Semester - 5451, 2nd Semester - 5452

Grade Levels: 10-12

Intermediate Algebra

Intermediate Algebra is designed to reinforce and expand algebraic concepts. The following advanced algebra topics will be covered during this year long mathematics course: solving equations; systems of linear equations; quadratic equations; operations with polynomials; statistics and probability; and trigonometry. It is required that each student have his/her own TI-30 XS Multi-view calculator for this course.

Prerequisites: Fundamentals of Geometry or teacher recommendation. Students that have earned credit in any course at or above Algebra 2 may not take this course for credit.

Semesters: 2 **Credits:** 2

Course Code: 1st Semester - 5473, 2nd Semester - 5474

Grade Levels: 11-12

College Algebra

College Algebra is designed to prepare students for a college credit-bearing mathematics courses. Successful completion of the course will prepare students to take the Assessment and Learning in Knowledge Spaces (ALEKS) college placement test. This course will expand on algebraic concepts with a concentration on the following topics: transformations of functions, operations on functions, solving equations and inequalities; simplifying rational and radical expressions of higher degree; rational functions, exponential functions, and logarithms. It is required that each student have a TI-30XS Calculator for this course.

Prerequisites: Algebra and Trigonometry or teacher recommendation. Students that have earned credit in any course at or above Algebra II may not take this course for credit without a teacher recommendation.

Semesters: 2 **Credits:** 2

Course Code: 1st Semester - 5484, 2nd Semester - 5485

Grade Levels: 12

Accelerated Algebra 2

In addition to reviewing and extending many of the topics covered in Algebra 1, Accelerated Algebra 2 extends the understanding of quadratics and linear systems. The course also covers other such topics as: conics, complex numbers, theory of equations, logarithms, basic trigonometry topics, use of matrices, and parametric equations. It is required that each student have his/her own TI-84 Plus graphing calculator.

Prerequisites: Two semesters of Accelerated Geometry or equivalent (a grade of B or better in Accelerated Geometry is highly recommended.)

Semesters: 2 **Credits:** 2

Course Code: 1st Semester - 2303 ,2nd Semester - 2304

Grade Levels: 10-12

Algebra Course Descriptions:

Algebra Part 1 (ESL & Bilingual)

This course assists English Language Learners in the acquisition of English skills while developing mathematical concepts. Included are all of the topics covered in the general education Algebra (Part 1) course. In addition, time is spent on upgrading arithmetic skills. Successful completion of Algebra (Part 1) and Algebra (Part 2) are required for graduation.

Course Codes: ESL CODE: 1st Semester-4533 , 2nd Semester- 4334

BILINGUAL CODE: 1st Semester- 4537 , 2nd Semester- 4538

Semesters: 2 **Credits:** 2

Grade Levels: 9-12

Fundamentals of Algebra Part 1

This course builds upon and expands the skills learned in Math 9. Students can expect to increase their algebraic vocabulary. Students will work with the basic operations in algebraic expressions. We will also investigate solutions to linear equations, problem solve with a variety of practical applications of algebra, and graph linear functions. Students with intentions of taking additional math courses will need a good understanding of the skills and concepts of Algebra. This course is the first part of the Fundamental Algebra sequence.

Prerequisites: Placement determined by IEP Team **Semesters:** 2 **Credits:** 2

Course Code: 1st Semester - 00291 2nd Semester - 00292

Grade Levels: 9, 10

Algebra Part 2 (ESL)

As a continuation of ESL Algebra (Part 1), the material covered in this course is equivalent to the second semester of the regular Algebra I course. Algebra I is primarily concerned with algebraic vocabulary, basic manipulations with polynomials and rational algebraic expressions, solutions to linear and quadratic equations, inequalities, word problems that illustrate a variety of practical applications of algebra, laws of exponents, graphing of linear functions, and the simultaneous solution of two linear equations in two unknowns. Upon completion of Algebra (Part 2), students should continue their mathematics study with Geometry or Algebra II. This course fulfills one year of the three years of mathematics needed for graduation.

Prerequisites: Completion of ESL Algebra (Part 1) or equivalent and approval of the ESL Instructor

Course Codes: 1st Semester- 4611 , 2nd Semester- 4512

Semesters: 2 **Credits:** 2

Grade Levels: 10-12

Fundamentals of Algebra Part 2

Fundamental Algebra Part 2 expands on the material covered in Fundamental Algebra Part 1. Concepts explored include algebraic expressions, solving and graphing of linear equations, inequalities and problem solving using practical applications of Algebra. This course is aligned with the Algebra Part 2 class that is taught in the Math Department.

Prerequisites: Placement determined by IEP Team **Semesters:** 2 **Credits:** 2

Course Code: 1st Semester - 00261 2nd Semester - 00262

Grade Levels: 9, 10,

Geometry Course Descriptions:

Geometry

Geometry deals primarily with developing the student's ability to reason logically through problems on topics dealing with triangles, parallel and perpendicular lines, polygons, circles, proportions, and similarity. As a result, students should become aware of the importance of oral/written analysis of algebraic and geometric procedures. On the average, students should expect up to 5 hours of homework per week. It is highly recommended that Geometry students purchase a TI-30XS Multi-view or TI-84 Plus calculator.

Prerequisites: Two semesters of Algebra 1 or equivalent (a grade of C or better in Algebra I or teacher recommendation is highly recommended)

Semesters: 2 **Credits:** 2

Course Code: 1st Semester -5441 , 2nd Semester - 5442

Grade Levels: 10-12

Accelerated Geo

Accelerated Geometry deals primarily with developing the student's ability to reason logically through mathematical proofs illustrated by means of problems from such topics as triangles, parallel and perpendicular lines, polygons, circles, proportions, and similarity. Other topics covered are 3-dimensional shapes, volume, inequalities, analytical geometry, transformations, vectors, concurrency, and constructions. Technology will be used extensively for better and enhanced understanding. While a graphing calculator is not required for this course, plan on purchasing a TI-84 Plus for next year.

Prerequisites: Two semesters of Algebra 1 or equivalent and approval of Division Leader.

Semesters: 2 **Credits:** 2

Course Code: 1st Semester– 2603 , 2nd Semester– 2604

Grade Levels:10-12

Geometry AB (ESL)

This sequential course is designed to assist Limited English Proficient students acquire English skills while developing geometry concepts. As with the regular education Fundamentals of Geometry course, it provides students with the fundamental vocabulary, properties, language, and content of geometry. Included are the core geometric topics such as triangles, circles, polygons, parallel lines, coordinate, and solid geometry. In addition, students will continue to increase their knowledge of algebraic skills. PARCC and ACT math skills and test preparation will be fully integrated throughout the course. Successful completion of this course fulfills the geometry requirement needed for graduation.

Prerequisites: Completion of ESL Algebra (Part 1) or equivalent and approval of the ESL Instructor

Course Codes: 1st Semester- 4611 , 2nd Semester– 4612

Semesters: 2 **Credits:** 2

Grade Levels: 10-12

Explorations of Geometry

This two semester geometry course continues the math sequence for students who have completed Fundamentals of Algebra Part I and Part II. This course will explore the fundamental concepts of geometry such as triangles, circles, parallel lines, and solid geometry. Fundamental vocabulary, properties, and the language of geometry will be taught. Algebra skills will be reinforced through the application of geometric concepts.

Prerequisites: Placement determined by IEP Team

Semesters: 2 **Credits:** 2

Course Code: 1st Semester - 00295 2nd Semester - 00296 **Grade Levels:** 9, 10, 11

Calculus Course Descriptions (Cont.)

Pre-Calculus

Topics covered in this course include the concept of a function, polynomial, rational, exponential and logarithmic functions; complex numbers, and their respective applications. The trigonometric functions, developed from the perspective of a unit circle, will also be covered as well as trigonometric identities and equations and their use in practical situations. Further topics that will be discussed are sequences and series. A graphical approach is taken with emphasis on the use of technology, mathematical modeling, and the connections with the physical sciences. It is required that each student have his/her own TI-84 Plus graphing calculator. This course is a prerequisite for those students planning to take AP Calculus AB. On the average, students should expect up to 5 hours of homework per week.

Prerequisites: Two semesters of Algebra 2 or equivalent (a grade of B or better in Algebra 2 or teacher recommendation).

Semesters: 2 **Credits:** 2

Course Code: 1st Semester - 5466 , 2nd Semester - 5467

Grade Levels: 10-12

Accelerated Pre-Calculus

Topics covered in this course include the concept of a function, polynomial, rational, exponential and logarithmic functions, complex numbers and their respective applications, trigonometric functions, developed from the perspective of a unit circle, as well as trigonometric identities and equations and their use in practical situations, parametric equations, sequences and series, and matrices, and if time permits, selected topics in probability and statistics and programming. A graphical approach is taken with emphasis on the use of technology, mathematical modeling, and the connections with the physical sciences. It is required that each student have any version of a TI-84 Plus graphing calculator. This course is a prerequisite for those students planning to take AP BC Calculus at Fenton High School.

Prerequisites: Two semesters of Accelerated Algebra 2 or equivalent (a grade of B or better in Accelerated Algebra 2 or teacher recommendation).

Semesters: 2 **Credits:** 2

Course Code: 1st Semester - 2205, 2nd Semester - 2206

Grade Levels: 10-12

Calculus Course Descriptions

AP Calculus AB

This course is the culmination of the traditional sequence of courses in mathematics at Fenton High School. Topics included are functions, limits, derivatives, integrals, analytical geometry, and their many applications to a variety of practical problems. After completing this course, students will be prepared to take the Advanced Placement Examination in AB Calculus. Upon receipt of a satisfactory score, college credit may be given by select colleges and universities. It is required that each student have his/her own TI-84 Plus graphing calculator.

Prerequisites: Two semester of Pre-Calculus or equivalent (a grade of B or better in Pre-Calculus or teacher recommendation).

Semesters: 2 **Credits:** 2

Course Code: 1st Semester - 2061, 2nd Semester - 2062

Grade Levels: 11-12

AP Calculus BC

This course is the culmination of the accelerated sequence of courses in mathematics at Fenton High School. In addition to all of the Calculus AB topics, topics include derivatives and integrals of parametric, polar and vector functions, improper integrals, and polynomial approximation with series. After completing this course, students will be prepared to take the Advanced Placement Examination in either Calculus AB or BC. Upon receipt of a satisfactory score on the BC exam, college credit may be given for the equivalent of Calculus 1 and Calculus 2 by some colleges and universities. It is required that each student have any version of a TI-84 Plus graphing calculator.

Prerequisites: Two semesters of Accelerated Pre-Calculus or equivalent (a grade of B or better in Accelerated Pre-Calculus or teacher recommendation).

Semesters: 2 **Credits:** 2

Course Code: 1st Semester - 2063, 2nd Semester - 2064

Grade Level: 12

Other Advanced Placement Math Course Descriptions:

AP Statistics

This course introduces students to the science of collecting, analyzing, and making inferences from data. AP Statistics covers four main themes: Theme 1-Organizing Data: this involves looking for patterns and departures from patterns, organizing data both numerically and graphically and relationships within the data. Theme 2: producing Data: this involves learning how to design samples and experiments and how to conduct simulations. Theme 3- Probability: this involves the study of randomness, binomial distributions, geometric distributions, and distributions based on samples. Theme 4-Inference: this is of major importance in AP Statistics. Inference involves analyzing data in order to make conclusions with confidence. Students in this course are encouraged to take the Advanced Placement exam. Upon receipt of a satisfactory score, college credit may be given by colleges and universities. It is required that each student have his/her own TI-84 Plus graphing calculator.

Prerequisites: Two semesters of Algebra 2 or equivalent. (A grade of B or better in Algebra 2 or teacher recommendation).

Semesters: 2 **Credits:** 2

Course Code: 1st Semester - 5476, 2nd Semester - 5477

Grade Levels: 10-12

AP Computer Science Principles

AP Computer Science Principles is a full-year mathematics elective course offering a multidisciplinary approach to teaching the underlying principles of computation. The course will introduce students to the creative aspects of programming, abstractions, algorithms, large data sets, the Internet, cyber security concerns, and computing impacts. AP Computer Principles will give students the opportunity to use technology to address real-world problems and build relevant solutions. Together, these aspects of the course make up a rigorous and rich curriculum that aims to broaden participation in computer science. This course does not count towards the mathematics requirements for graduation. All 10th and 11th graders must be enrolled in a mathematics course concurrently with this course.

Prerequisites: Successful completion of Algebra 1 and Geometry or with administrative approval.

Semesters: 1 **Credits:** 1

Course Code: 1st Semester - 2073, 2nd Semester - 2074,

Grade Levels: 10,11,12

Other General Mathematics Course Descriptions:

Basic Math (ESL & Bilingual)

This course provides English Language Learners basic math skills and vocabulary development in preparation for students to be successful in high school level math courses.

Course Codes: ESL **Code:** 1st Semester- 4560, 2nd Semester- 4561

Bilingual Code: 1st Semester- 4660, 2nd Semester- 4661

Semesters: 2 **Credits:** 2

Grade Levels: 9-12

Life skills Math

This math class focuses on functional mathematics in real-life contexts. Basic money concepts such as total costs, change, tax, and budgets are covered. Time management, reading schedules, and using a map are also concepts covered throughout the year. Percentages, fractions, and decimals are covered in the context of real life situations such as cooking, measurement, and budgeting purposes. Numeration and computation of numbers in daily living, which included addition of percentages, fractions and decimals, are covered throughout the year. The course changes from year to year depending on repeat students, so that each year they grow and advance in their skills.

Prerequisites: Placement determined by IEP Team

Semesters: 2 **Credits:** 2

Course Code: 1st Semester - 00225 2nd Semester - 00226

Grade Levels: 9, 10, 11, 12

Consumer Math

In this course the students are instructed on the topics of consumer education and how to become an educated consumer in our society. Topics include: savings, investing, banking, checking, insurance, comparison shopping, budgeting, and renting. **Note:** This course meets the Consumer Education Requirements for Graduation.

Prerequisites: Placement determined by IEP Team

Semesters: 2 **Credits:** 2

Course Code: 1st Semester - 00273 2nd Semester - 00274

Grade Levels: 11, 12



PHYSICAL EDUCATION

Philosophy

The physical education program of Fenton High School is based on the belief that an individual is the combination of mind and body. The mission of the physical education department is to improve physical fitness, develop an awareness of the various aspects of fitness, teach physical skills, develop knowledge of game rules and strategies, reduce tension and stress, develop social values, and contribute to a wiser use of leisure time. As a result, this should lead to a longer and happier life for the student.

Physical Education Course Descriptions:

Physiology Of Exercise 9 (Freshman)

Physiology of Exercise 9 offers a variety of activities designed to develop an understanding of the effect exercise has on the body. In addition, these activities will enhance strength, flexibility, and cardiovascular endurance. The activities include an introduction to physiology of exercise, soccer, tennis, weight training and fitness, and track and field.

Prerequisites: None **Semester(s):** 1 **Credits:** 1
Course Code: 8101
Grade Level: 9

Fitness and Nutrition

Fitness and Nutrition is a course that combines fitness activities and a food lab experience. It emphasizes a healthy lifestyle and helps students attain their fitness goals. Students will be exposed to a variety of physical activities such as circuit training, weight training, and cardiovascular endurance training. Some sports units will also be included in this course. Students will understand how to make fitness part of their daily routine. Students will also learn the role of nutrition in a healthy lifestyle. Food lab experiences incorporate developing and preparing tasty, healthy food. After completing this course, students will know how to exercise without using an expensive health club and have a wellness plan for life.

NOTE: Students may take one or two semesters. Students will earn a Physical Education credit.

Prerequisites: None **Semesters:** 1 or 2 **Credits:** 1 or 2
Course Code: 1st Semester - 8073 2nd Semester - 8074
Grade Levels: 11, 12
Lab Fee: \$5.00

Physiology of Exercise 10, 11, 12 (Sophomore, Junior, and Senior)

Students enrolled in Physiology of Exercise 10, 11, or 12 will further their understanding of foundational skills in a variety of physical education activities. Students will continue to learn and apply health and skill related components of fitness. The activities in this course will include units in fitness, lifetime activities, individual sports, and team sports. Examples may be, but not limited to, badminton, backyard games, basketball, fitness testing, floor hockey, small group fitness, soccer, tchoukball, ultimate frisbee, volleyball, weight training, and yoga.

Prerequisite: Physiology Of Exercise
(Freshman)

Semester(s): 2* **Credits:** 2*

Course Code: Semester 1-8103, Semester 2-8104

***Grade Level:** 10 (1 semester only if in Driver Education), 11, and 12

Strength and Conditioning

The Strength and Conditioning class offers students an opportunity to gain knowledge, skills and techniques, while developing a workout program. Topics of discussion include: anatomical adaptation, hypertrophy, maximum strength, transition phase, muscle breakdown and recovery, nutrition and muscle growth, and the proper use of nutritional supplements. Students will also be taught muscle anatomy, principles and theories of muscle hypertrophy and weight lifting, and avoiding and dealing with muscle soreness. As students participate in this course they will actively use weight lifting equipment and will be taught proper usage and safety procedures used in weight training.

Semester(s): 1 or 2 **Credits:** 1 or 2

Course Code: 1st Semester - 8071, 2nd Semester - 8072

Grade Levels: 11, 12

Physical Education Course Descriptions (Cont.):

Driver Education Classroom

Driver Education, “classroom phase,” is incorporated into the Sophomore Physical Education course. The content of Driver Education Classroom includes existing and proposed rules of the road, and graduated licensing laws.

Prerequisite: 10 or more credits earned, and Illinois State law requires students to have passed a minimum of eight courses during the previous two semesters.

Course Code: 8091

Grade Levels: 10, 11, and 12

Health

Fenton’s Health Education course is one semester of freshman year. The topics of instruction are: Health Skills, Mental and Emotional Health, Family and Social Health, Growth and Development, Communicable and Chronic Diseases, Nutrition, Alcohol, Tobacco and Other Drugs, and Consumer and Community Health.

Prerequisites: None

Semesters: 1 **Credits:** 1

Course Code: 8025

Grade Level: 9

Health Skills

Health Skills is designed to instruct students in the following health related subjects: nutrition, wellness, tobacco, alcohol and drugs, and sexuality. Students will learn the factors that contribute to good physical, mental and social health.

Prerequisites: Placement determined by IEP Team

Semesters: 1 **Credits:** 1

Course Code: 00513

Grade Levels: 9

Behind the Wheel

The “Behind the Wheel” phase is a four week program offered for students upon completion of the classroom portion of Driver Education. Behind the Wheel is offered to students before and after school, and in summer school. Student enrollment is based on the age of the student: students who are over 16 or near their 16th birthday are offered this phase of the program first. During the Behind the Wheel phase, the students are exposed to varying driving situations that emphasize motor skills, application of the laws, accurate judgment, properly timed correct responses, and driving emergencies

Prerequisite: Successful completion of the classroom phase of Driver Education, and Illinois State law requires students to have passed a minimum of eight courses during the previous two semesters.

Course Code: 9224

Grade Levels: 10- 12 **Fee:** \$200.00

Health (ESL & Bilingual)

This course is designed to assist Limited English Proficient students acquire English skills while they learn how to develop a healthy lifestyle based on informed choices. These topics may include: personal health, stress management, systems of the body, mental health, personal relationships, sexuality, marriage, parenthood, human growth and development, nutrition and physical fitness, the abuse of drugs, alcohol, and tobacco, and diseases and disorders. Successful completion of this course fulfills Fenton’s health course requirement for graduation.

Prerequisites: Approval from an ESL Instructor

Course Codes: ESL CODE: 4508

BILINGUAL CODE: 1st Semester- 4509

Semesters: 1 **Credits:** 1

Grade Levels: 9-12



SCIENCE

Philosophy

The study of science has been a fundamental activity of humans since they first took notice of the world around them. The science department, through its various course offerings, attempts to instill in each student a corresponding inquisitive nature. The staff communicates the facts relating to each specific area. Furthermore, they illustrate how those facts relate to situations surrounding the student at the present time and in their future endeavors. Those goals are achieved by familiarizing students with the “scientific practices” and helping them to use the principles of scientific reasoning.

Requirements and Recommendations

Students are highly encouraged to take four (4) years of science courses. Many colleges require a minimum of three years of science and science is a tested area on the ACT. Two (2) years of Science are required for graduation from Fenton High School. The first year in the science progression must consist of a Biological Science course. This course will be Biology or Accelerated Biology. The second year in the science progression must consist of a Physical Science course. This course will be Chemistry or Physical Science. In the third and fourth year of science, students may choose from a variety of courses. Please see course descriptions for listed prerequisites for each course. Placement in all courses will be under the guidance of the department chairperson and determined by high school placement testing, counselor direction, teacher recommendation, and student need.

Science Safety

The Science Program at Fenton High School is a laboratory (experiment centered) program. Working with chemicals, laboratory apparatus, and heat sources may at times present dangers to students who fail to follow reasonable safety procedures and directions. The State of Illinois has passed several laws relating to the use and wearing of protective devices while students participate in class laboratory activities. Parental and student awareness and cooperation are needed to ensure full student participation in the Science Department's Safety Program. The following guidelines need to be enforced:

1. Understand and follow all laboratory procedures. “THE LABORATORY IS NO PLACE FOR FOOLING AROUND!” Many classroom accidents are the direct result of poor student behavior.
2. Approved-type Safety Goggles must be worn as prescribed by law and as directed by the classroom teacher. Goggles of this type are provided for each student in the classroom.
3. Students are informed in the laboratory about proper clothing material and style relative to laboratory safety. Particular attention is given to materials with a high degree of flammability, and the ability of the clothing to protect the student in the unlikely event of a spill on their person. Protective aprons are provided for each student while working in the laboratory.
4. Since the ingestion and absorption of chemicals is always a possibility in the classroom, a strict adherence to a policy of no eating, no drinking, and no application of cosmetics is expected in the science classrooms.

9th Grade Science Course Descriptions:

Biology

This full-year introductory course provides an introduction to high school science. Biology is the study of living organisms, their origins, how they survive, reproduce, change over time, and interact with each other and their environments. The primary objective of the course is to provide students with a fundamental understanding of modern biology and scientific processes. This introductory Biology class presents a scientific study of the structure and function of living organisms and their ecological relationships. Emphasis is given to practical implications and everyday applications that are meaningful to the student.

Prerequisites: None

Semesters: 2 **Credits:** 2

Course Code: 1st Semester - 5681, 2nd Semester - 5682

Grade Levels: 9

Biology (ESL & Bilingual)

This is a full year course intended to meet the needs of Limited English Proficient students pursuing a science-related career or preparing to attend a four-year college. This course presents principles that compare and contrast the structures and functions found in all living things from one-celled organisms through the human body. Topics such as biological classification, cell structure and function, genetics, microbiology, and balanced and functioning system, are covered. The course is the first course in the teaching of laboratory procedures and the scientific method taught at the high school level. In addition, this course satisfies one course of the science requirement at Fenton and for admission to college.

Prerequisites: Approval of the ESL/Bilingual Instructor

Course Codes: ESL CODE: 1st Semester-4503, 2nd Semester- 4504

BILINGUAL CODE: 1st Semester- 4403 , 2nd Semester- 4404

Semesters: 2 **Credits:** 2

Grade Levels: 9,10

Accelerated Biology

Biology is the study of living organisms, their origins, how they survive, reproduce, change over time, and interact with each other and their environments. The Accelerated Biology curriculum is an introductory course taught in two semesters of high school. The primary objective of the course is to provide students with a fundamental understanding of modern biology and scientific processes, building a foundation for success in the college level AP courses to follow. The Accelerated Biology curriculum differs from the regular Biology curriculum in meaningful ways. This Pre-AP curriculum examines topics with more depth and includes more advanced resource material with more rigorous and extended reading. Laboratory investigations play a more prominent role in the Accelerated course. Labs are more in depth than in the regular curriculum and students are expected to design and carry out experiments using appropriate methods and resources. Students will be encouraged to advocate for their own learning through being organized, prepared and willing to seek out support from their teachers and classmates.

Prerequisites: None

Semesters: 2 **Credits:** 2

Course Code: 1st Semester - 5613, 2nd Semester - 5614

Grade Levels: 9,10

Bilingual General Science

This course provides English Language Learners students with an introduction to general science and may include topics from life science, earth science, or physical science, depending on the needs of the students. Students will become familiar with lab safety rules and the scientific method.

Prerequisites: None **Semesters:** 2 **Credits:** 2

Course Code: 1st Semester - 4564, 2nd Semester - 4565

Grade Levels: 9, 10, 11, 12

10th Grade Science Course Descriptions:

Chemistry

This course is designed as the second course in the science sequence for students. This is a laboratory course dealing with the structure of and changes in matter. Some of the topics covered include understanding the physical properties of matter, energy and its interactions with matter, describing and categorizing matter, counting particles and describing chemical change. Laboratory investigations and demonstrations will be a focus in class and guide student learning through presentations of group data and class discussion. Access to a scientific calculator is required on a daily basis.

Prerequisites: Successful completion of Accelerated Biology or Biology.

Semesters: 2 **Credits:** 2

Course Code: 1st Semester - 5621, 2nd Semester - 5622

Grade Levels: 10-12

Bilingual General Science

This course provides English Language Learners students with an introduction to general science and may include topics from life science, earth science, or physical science, depending on the needs of the students. Students will become familiar with lab safety rules and the scientific method.

Prerequisites: None **Semesters:** 2 **Credits:** 2

Course Code: 1st Semester - 4564, 2nd Semester - 4565 **Grade Levels:** 9, 10, 11, 12

Accelerated Chemistry

This course is designed as a possible second course in the science sequence and for students who will pursue a STEM based college prep course of study. This is a fast paced laboratory course dealing with the structure of and changes in matter. Some of the topics covered include chemical bonding; chemical reactions; the Periodic Law; equilibrium; solubility; acids and bases; bonding structure; and VSEPR Theory. Laboratory investigations will be a focus in class. Access to a scientific calculator is required on a daily basis.

Prerequisites: Teacher Recommendation Required

Semesters: 2 **Credits:** 2

Course Code: 1st Semester - 5721, 2nd Semester - 5722

Grade Levels: 10

Chemistry (ESL & Bilingual)

This course is designed as the second course in the science sequence for students. This is a laboratory course dealing with the structure of and changes in matter. Some of the topics covered include understanding the physical properties of matter, energy and its interactions with matter, describing and categorizing matter, counting particles and describing chemical change. Laboratory investigations and demonstrations will be a focus in class and guide student learning through presentations of group data and class discussion. Access to a scientific calculator is required on a daily basis.

Prerequisites: Approval of the ESL/Bilingual Instructor

Course Codes: ESL CODE: 1st Semester - 4703, 2nd Semester - 4704

BILINGUAL CODE: 1st Semester - 4803, 2nd Semester - 4804

Semesters: 2 **Credits:** 2

Grade Levels: 10-12

11th & 12th Grade Science Course Descriptions:

Physics

The purpose of this course is to give the student a broad understanding of the fundamental concepts and skill of Physics. Physics is the study of the interactions of matter and energy. Course topics include: motion, forces, and momentum; regions of heat, light, sound and waves; and electricity, magnetism, nuclear chemistry and astronomy. Students will investigate topics through frequent inquiry based laboratory experiments. In mastering the content, students will be presented information through several additional means that may include but are not limited to lectures, research projects, and homework. Those who put the time and effort into learning the materials will leave the classroom well prepared to succeed in AP Physics.

Prerequisites: Geometry and Physical Science or Chemistry. Chemistry may be taken concurrently with Physics.

Semesters: 2 **Credits:** 2

Course Code: 1st Semester - 5631, 2nd Semester - 5632

Grade Levels: 11,12

Biology 2

This full-year course who intend to pursue a science-related career or who are preparing to attend a four-year college. In addition to reviewing and extending the depth of the topics presented in Biology, Biology 2 will place an added emphasis on content typically encountered during a college first-year college biology course. The content of the course will include cellular biology, genetics, zoology, and human anatomy and physiology. A continued emphasis will be made on the development of laboratory skills, with hands-on activities and discovery learning, following the scientific method as a key focus in the activities.

Prerequisites: Two years required science coursework.

Semesters: 2 **Credits:** 2

Course Code: 1st Semester - 5683, 2nd Semester - 5684

Grade Levels: 11-12

Geoscience

Students enrolled in Geoscience have the opportunity to observe and study the physical environment. Major topics covered include the Earth's changing surface, the composition of the surface, Earth history, Astronomy, weather, Oceanography, and climate. The impact on the environment by humans is continually investigated. The course of study utilizes text, video, and laboratory experiences.

Prerequisites: Two years required science coursework. **Semesters:** 2 **Credits:** 2

Course Code: 1st Semester - 5676, 2nd Semester - 5677

Grade Levels: 11,12

Foundations of Scientific Research

Foundations of Scientific Research is for students concurrently enrolled in a science course and will provide opportunities for developing literacy skills in the context of those courses and for extending learning in those course topics. By enrolling in the course, students will develop and be evaluated on skills in interpreting scientific literature and evaluating the quality of research studies in science and medicine as well as conducting their own research and experiments. Students will develop scientific vocabulary necessary for success in college level science courses. Students on a career pathway towards health and other science related fields will benefit from this course. Students will learn to "Think like a scientist!"

Prerequisites: None

Semesters: 2 **Credits:** 2

Course Code: 1st Semester - 2075, 2nd Semester - 2076

Grade Levels: 11,12

11th & 12th Grade Science Course Descriptions (Cont.):

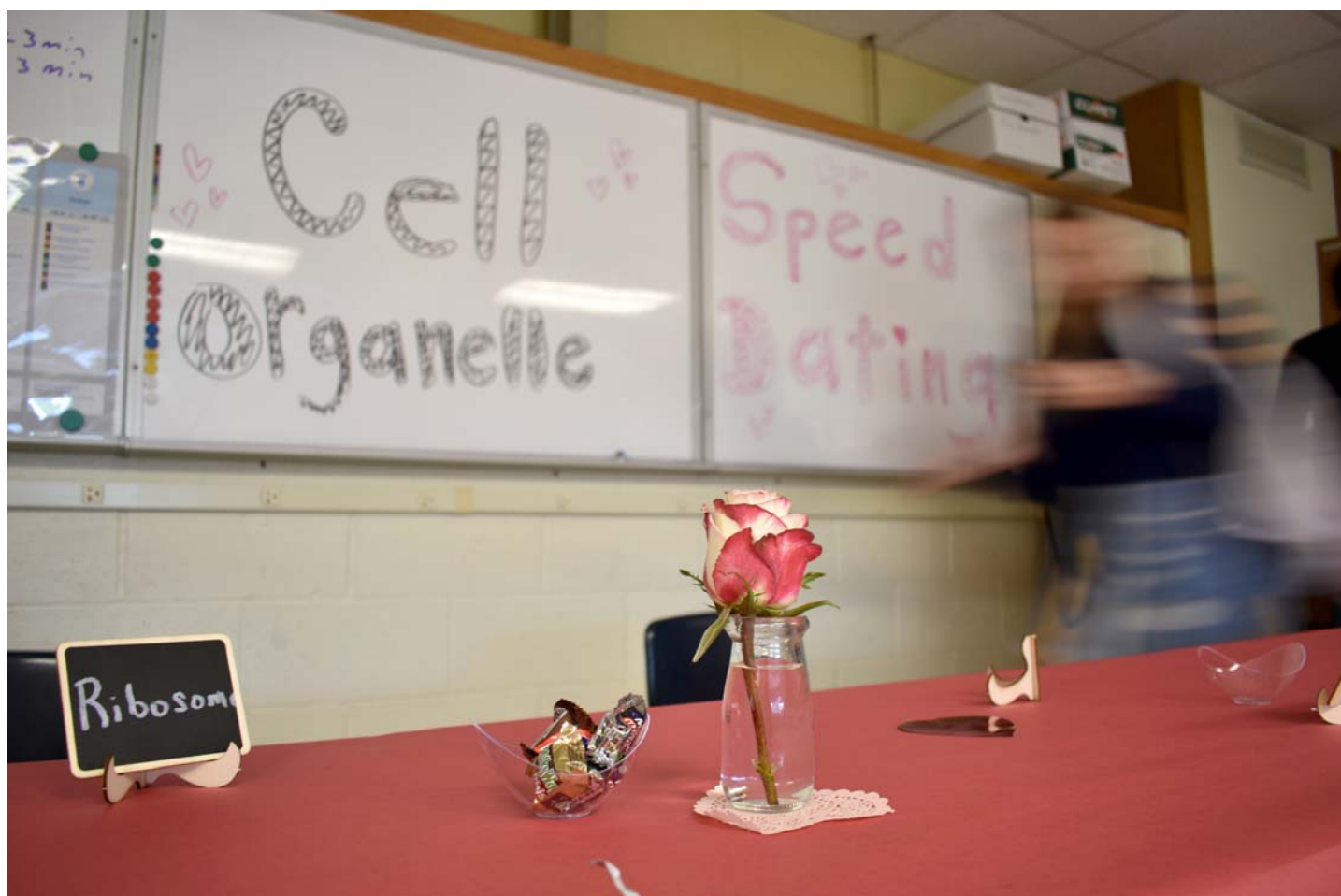
Bilingual General Science

This course provides English Language Learners students with an introduction to general science and may include topics from life science, earth science, or physical science, depending on the needs of the students. Students will become familiar with lab safety rules and the scientific method.

Prerequisites: None **Semesters:** 2 **Credits:** 2

Course Code: 1st Semester - 4564, 2nd Semester - 4565

Grade Levels: 9, 10, 11, 12



11th & 12th Grade Science Course Descriptions (cont.)

AP Chemistry

Advanced Placement Chemistry is designed to be the equivalent of a college introductory course usually taken by chemistry majors during their first year. AP chemistry differs from a typical high school course with respect to the laboratory work done by students and the time and effort outside of class required by students. Course content will emphasize topics in inorganic chemistry, and will involve a great amount of mathematical problem-solving and explanation of chemical concepts. The College Board suggests taking Physics either before or concurrently with this course. Students enrolled in AP Chemistry will be expected to take the Advanced Placement examination given in May. Students who earn a successful score on this test may receive college credit.

Prerequisites: Two years required science coursework, Chemistry (earning a grade of A or B), and Algebra 2

Semesters: 2 **Credits:** 2

Course Code: 1st Semester - 2081, 2nd Semester - 2082

Grade Levels: 11,12

AP Environmental Science

The AP Environmental Science course is designed to be the equivalent of a one-semester, introductory college course in environmental science. The goal of the AP Environmental Science course is to provide students with the scientific principles, concepts, and methodologies required to understand the interrelationships of the natural world, to identify and analyze environmental problems both natural and human-made, to evaluate the relative risks associated with these problems, and to examine alternative solutions for resolving or preventing them. Environmental science is interdisciplinary; it embraces a wide variety of topics from different areas of study. Students enrolled in this course will be preparing to take the AP exam in May. Students who earn a successful score on this test may receive college credit in one of the many participating colleges throughout the country.

Prerequisites: A grade of B or better in a previous full year math course and successful completion of 2 science courses or with administrative approval or teacher recommendation.

Semesters: 2 **Credits:** 2

Course Code: 1st Semester - 2085, 2nd Semester - 2086

Grade Levels: 11,12

11th & 12th Grade Science Course Descriptions (cont.)

AP Biology

Advanced Placement Biology is designed to be the equivalent of a college introductory course, usually taken by biology majors during their first year. Because of the rigor of this course, it is expected that students will possess a high level of motivation and a sound knowledge of chemistry. Students should expect to spend approximately 4 hours per week outside of class working on reading guides, free-response questions, lab reports, projects, and video notes. There is a summer assignment to review basic chemistry concepts and refresh math and graphing skills that will be due the first week of school. Topics studied in this course include biochemistry, ecology, cell biology, metabolism, photosynthesis, cell respiration, Mendelian & molecular genetics, biotechnology, evolution, and homeostasis. Students in AP Biology will prepare to take the AP Exam given in May. Students may earn college credit if they earn a passing score on the AP Exam. A or B grade in Chemistry recommended.

Prerequisites: Chemistry

Semesters: 2 **Credits:** 2

Course Code: 1st Semester - 2083, 2nd Semester - 2084

Grade Levels: 11,12

AP Physics 1

AP Physics 1 is designed to be an algebra-based introductory class equivalent to the first semester of a college physics course. The primary areas of focus for AP Physics 1 will be motion, forces, energy, momentum, waves, and an introduction into electrostatics and circuitry. Students will investigate topics through frequent inquiry based laboratory experiments. In mastering the content, students will be presented information through several additional means that may include but are not limited to lectures, research projects, and homework. The coursework will be rigorous and challenging. Those who put the time and effort into learning the materials will leave the classroom well prepared to succeed in their future physics endeavors. Students will have the option of taking the AP Physics 1 exam in May that may allow them to earn college credit.

Prerequisites: Chemistry, Pre-Calculus or concurrently enrolled in Pre-Calculus, a C or higher in Algebra 2 or teacher recommendation.

Semesters: 2 **Credits:** 2

Course Code: 1st Semester - 2095, 2nd Semester - 2096

Grade Levels: 11,12

General Science Course Descriptions (cont.)

General Science

General science is an introduction course to physical science concepts. Students will become familiar with safety rules and the scientific method. Physical science studies will focus on types of matter, the periodic table, elements, compounds, forces and simple machines.

Prerequisites: Placement determined by IEP Team
Semesters: 2 Credits: 2

Course Code: 1st Semester - 00265, 2nd Semester - 00266

Grade Levels: 9, 10, 11, 12





SOCIAL STUDIES

Philosophy

The Social Studies are concerned with human relationships. The content of the Social Studies is derived principally from the scholarly disciplines of history, geography, anthropology, economics, political science, psychology, and sociology. The basic purpose of the courses offered by the Social Studies Department is to provide each student with a personally meaningful and sustaining orientation to his or her total social environment based upon a rational and logical approach to human relationships. In order to accomplish this purpose, the student should develop an ability to organize, analyze, and impart information in a manner which enables the individual to act upon and effectively utilize his or her present and continuing educational experiences in a world that is dominated by change. All of the courses offered by the department provide the opportunity for each student to achieve at an optimum level.

Requirements and Recommendations

Graduation Requirements

*Six semesters (six credits) of Social Studies are required of all students. All students must satisfactorily complete: Introduction to the Social Sciences** World History OR AP World History United States History OR AP United States History OR American Heritage *Two semesters, in sequence are required for all of the above courses. Electives are offered to Juniors and Seniors to explore other areas in the Social Studies beyond the three year requirement.*

****Constitution Test Requirement**

1) Students that pass the first semester of Introduction to the Social Sciences will demonstrate a clear understanding of patriotism and principles of representative government, proper use of the flag, methods of voting and the Pledge of Allegiance, as required by Illinois State law and the Fenton graduation requirements.) Students that do not pass the first semester of Introduction to the Social Sciences are required to pass a test of the American Constitution in order to graduate. Those students must make individual arrangements with the Division Leader to take the exam.

9th Grade Social Studies Course Descriptions:

Introduction to the Social Sciences

What are the social sciences? In order to acquaint students with the various disciplines within the social sciences, this course presents a survey of American civics, psychology, economics, sociology, anthropology, and geography. Various methodologies will be incorporated in order to deal with the basic concepts of the social sciences. The first semester of the course fulfills the state requirement of one semester of civics, focusing on government institutions, the discussion of current and controversial issues, and simulations of the democratic process. It also requires two hours of service learning to teach students the value and importance of civic involvement and service learning in their communities. The theoretical as well as the practical facets of each discipline will be introduced and investigated.

Prerequisites: None

Semesters: 2 **Credits:** 2

Course Code: 1st Semester -5571 , 2nd Semester - 5572

Grade Levels: 9

Basic U.S. History (ESL & Bilingual)

This course provides English Language Learners with an overall view of United States history with an emphasis on significant periods in American history and vocabulary development.

Course Codes: ESL CODE: 1st Semester-4562, 2nd Semester- 4563

BILINGUAL CODE: 1st Semester-4662, 2nd Semester- 4663

Semesters: 2 **Credits:** 2

Grade Levels: 9-12

Introduction to the Social Sciences (ESL & Bilingual)

This course will assist Limited English students improve their English skills while acquainting them with the various disciplines within the social sciences. Units include civics, political science, psychology, economics, sociology, anthropology, and geography. During the civics unit, students will be assessed on the U.S. Constitution, the Illinois Constitution, and the U.S. Flag, which are required for graduation in the state of Illinois. Students must also complete two hours of community service during first semester so they acquire the value and importance of civic involvement in their communities. This course fulfills part of the three-year Social Studies requirement for graduation.

Course Codes: ESL CODE: 1st Semester- 4600, 2nd Semester- 4601

BILINGUAL CODE: 1st Semester-4501 , 2nd Semester - 4502

Semesters: 2 **Credits:** 2

Grade Levels: 9,10

10th Grade Social Studies Course Descriptions:

World History

World History is a survey of the evolution of diverse civilizations from ancient times to the present. Students learn how the interactions between people from different empires, nation-states, social classes, and religious backgrounds have impacted the course of history. Students will come away from the course with knowledge of world geography, religions, and patterns of social, political, and economic interactions. They will ultimately recognize that the events of the past influence the world we live in today.

Prerequisites: None

Semesters: 2 **Credits:** 2

Course Code: 1st Semester -5593 , 2nd Semester - 5594

Grade Levels: 10

AP World History

Students taking this course will fulfill the World History graduation requirement, and prepare to take the Advanced Placement exam in World History. The course will develop greater understanding of the evolution of global history through classroom instruction, independent study, document comparison, and the development of historical scholarship, with an emphasis on developing the skills of historical analysis and writing.

Prerequisites: Introduction to the Social Sciences

Semesters: 2 **Credits:** 2

Course Code: 1st Semester -2093 , 2nd Semester - 2094

Grade Levels: 10

Basic U.S. History (ESL & Bilingual)

This course provides English Language Learners with an overall view of United States history with an emphasis on significant periods in American history and vocabulary development.

Course Codes: ESL CODE: 1st Semester-4562, 2nd Semester- 4563

BILINGUAL CODE: 1st Semester-4662, 2nd Semester - 4663

Semesters: 2 **Credits:** 2

Grade Levels: 9-12

World History (ESL & Bilingual)

The purpose of ESL or Bilingual World History is to develop English language skills while studying the evolution of diverse civilizations from ancient times to the present. Students learn how the interactions between people from different empires, nation-states, social classes, and religious backgrounds have impacted the course of history. Students will come away from the course with knowledge of world geography, religions, and patterns of social, political, and economic interactions. They will ultimately recognize that the events of the past influence the world we live in today. This course fulfills part of the three year requirement of social studies for graduation.

Prerequisites: Approval from an ESL Instructor

Course Codes: ESL CODE: 1st Semester– 4607, 2nd Semester– 4608

BILINGUAL CODE: 1st Semester– 4609, 2nd Semester– 4610

Semesters: 2 **Credits:** 2

Grade Levels: 9,10

10th Grade Social Studies Course Descriptions (Cont.):

World History

World History is a survey of the evolution of diverse civilizations from ancient times to the present. Students learn how the interactions between people from different empires, nation-states, social classes, and religious backgrounds have impacted the course of history. Students will come away from the course with knowledge of world geography, religions, and patterns of social, political, and economic interactions. They will ultimately recognize that the events of the past influence the world we live in today.

Prerequisites: Placement determined by IEP Team

Semesters:2 **Credits:**2

Course Code: 1st Semester -5593 , 2nd Semester - 5594

Grade Levels: 10



11th Grade Social Studies Course Descriptions:

United States History

The course is a survey of the major events in the history of our country with an emphasis on the Twentieth Century. A major focus is on the political, social, economic, and geographic changes that have contributed to the creation of modern America.

Prerequisites: None

Semesters: 2 **Credits:** 2

Course Code: 1st Semester -5551 , 2nd Semester - 5552

Grade Levels: 11

American Heritage

This combined studies course fulfills the requirements for both United States History and English 3 -Language & Composition. In addition to the traditional historical and literary content, American Heritage course provides the opportunity for students to further explore the cultural and artistic influences that helped to shape our nation. This course also includes the major elements of Pre-college composition, allowing students to develop more sophisticated writing skills. This class will meet in two period blocks for two semesters.

Prerequisites: None

Semesters: 2 **Credits:** 4 (2 English & 2 Social Studies)

Course Code: 1st Semester - 5587 , 2nd Semester - 5588

Grade Level: 11

AP United States History

Students taking this course will fulfill the United States History graduation requirement and prepare to take the Advanced Placement Exam in United States History. The course will emphasize the tutorial approach, independent study, historiography and the development of historical scholarship, with an emphasis on developing the skills of historical analysis and writing.

Prerequisites: Introduction to the Social Sciences

Semesters: 2 **Credits:** 2

Course Code: 1st Semester - 2091 , 2nd Semester - 2092

Grade Level: 11

United States History

(ESL & Bilingual)

This course is a survey of the major events in U.S. history for Limited English Proficient students. The purpose of this course is to develop English language skills through a study of the American people, culture, and past. This course takes a multicultural view of such topics as the development of the American form of constitutional republican government; development of the American economy; United States foreign policy; and the evolution of our total cultural heritage. Knowledge of the past is related to current events in order to develop a sense of historical continuity.

Prerequisites: Approval from an ESL Instructor

Course Codes: ESL CODE: 1st Semester-4517, 2nd Semester- 4518

BILINGUAL CODE: 1st Semester- 4617, 2nd Semester- 4618

Semesters: 2 **Credits:** 2

Grade Levels: 9-12

11th Grade Social Studies Course Descriptions (Cont.):

Basic U.S. History (ESL & Bilingual)

This course provides English Language Learners with an overall view of United States history with an emphasis on significant periods in American history and vocabulary development.

Course Codes: ESL CODE: 1st Semester -4562, 2nd Semester - 4563

BILINGUAL CODE: 1st Semester -4662, 2nd Semester - 4663

Semesters: 2 **Credits:** 2

Grade Levels: 9-12

U.S. History

The course is a survey of the major events in the history of our country with an emphasis on the Twentieth Century. A major focus is on the political, social, economic, and geographic changes that have contributed to the creation of modern America.

Prerequisites: Placement determined by IEP Team.

Semesters: 2 **Credits:** 2

Course Code: 1st Semester -5551, 2nd Semester - 5552

Grade Levels: 11



Social Studies Elective Descriptions

AP Psychology

Advanced Placement Psychology is designed to prepare students for the AP Psychology exam, which covers an introduction to the scientific and systematic study of behavior. Students are exposed to the psychological facts, principles, and phenomena associated with the major subfields within psychology. Students will also learn about the methodology utilized by psychologists in their practice including the research methods and the APA writing format. In this way, students will continue to develop their critical thinking as well as their reading and writing skills to help them succeed in college. The class will build on the foundations laid during the second semester of Introduction to the Social Sciences.

Prerequisites: Junior or senior standing and recommendation from one social studies teacher, 2 years of social studies.

Semesters: 2 **Credits:** 2

Course Code: 1st Semester - 2105 ,2nd Semester - 2106

Grade Level: 11-12

Military History

Military History is a one semester Social Studies elective focused on the central theme of armed conflict. Students will explore the development of warfare on land, sea and air, weapons and technology, strategy and defense, discipline and intelligence, mercenaries and standing armies, guerrilla assault and nuclear arsenals. Understanding the importance and the role of the military in the formation of individual states and societies will be addressed. Emphasis will be placed on the socioeconomic impact of military progress and the moral questions raised by armed conflict.

Prerequisites: None

Semesters: 1 **Credits:** 1

Course Code: 5527

Grade Level: 11-12

AP United States Government and Politics

AP United States Government and Politics introduces students to key political ideas, institutions, policies, interactions, roles, and behaviors that characterize the political culture of the United States. The course examines politically significant concepts and themes, through which students learn to apply disciplinary reasoning, assess causes and consequences of political events, and interpret data to develop evidence-based arguments.

Prerequisites: 2 Years of Social Studies **Semesters:** 2 **Credits:** 2

Course Code: 1st Semester - 5528 ,2nd Semester - 5529 **Grade Level:** 11-12

Criminal Justice

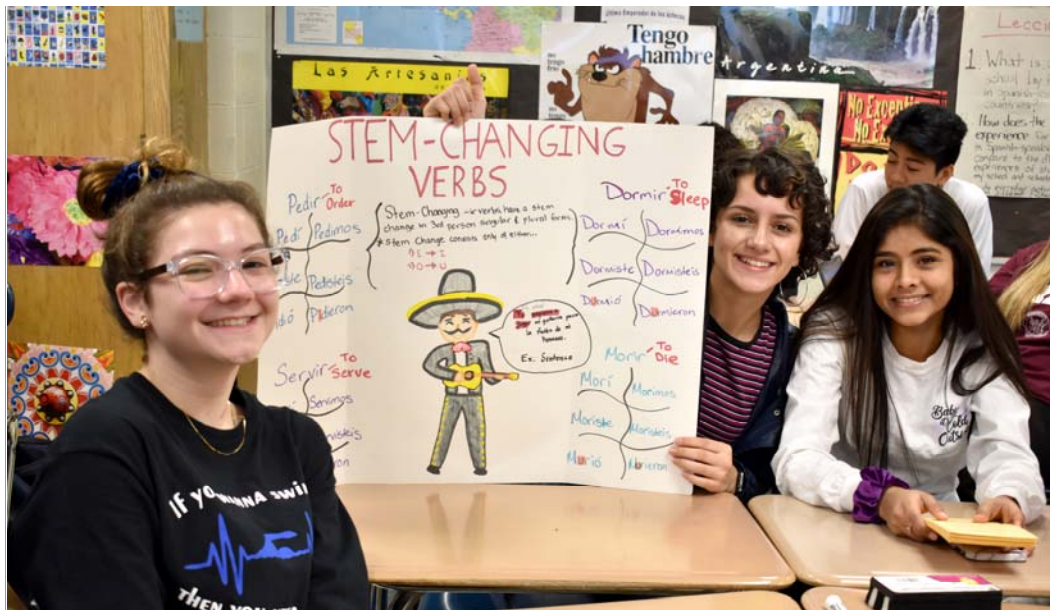
Criminal Justice focuses on the legal system of the United States from the mid-Twentieth Century to the present. This course is designed to meet the needs of students wishing to be exposed to the criminal justice system, wanting to explore a possible career in criminal justice, and who are interested in taking an in depth look at the American legal system. The course will acquaint students with legal terms, trial procedures and laws that relate to young adults. Major subject areas include the police, criminal cases, correction and juvenile justice. Landmark court cases will be used to establish precedent and encourage discussion. Written work and discussion participation will play a significant role in the course.

Prerequisites: None

Semesters: 1 **Credits:** 1

Course Code: 5526

Grade Level: 11-12



Requirements and Recommendations

Students who take two or more years of a world language in high school are more competitive when applying to college. Many colleges and universities require two years and highly recommend three to Four years of the same world language. World language courses also fulfill Fenton's Fine and/or Applied Arts graduation requirement.

WORLD LANGUAGES

Philosophy

Recognizing the need for sensitive, global citizens, the World Language Department believes that second language acquisition is an important part of every student's academic, social and civic development. Our mission is to provide the opportunity to master the four essential skills of communication: reading, writing, listening and speaking. In order to gain a broader cultural appreciation, students will also explore music, literature, art, traditions and history related to the various languages offered.

Seal of Biliteracy

Students have the opportunity to earn the Illinois State Seal of Biliteracy. This seal recognizes students who demonstrate a high level of proficiency in English and another language. In order to earn the Seal of Biliteracy, each student must demonstrate proficiency in English and another language by the spring of senior year. Students who approach the criteria but do not meet it may be eligible for the Commendation towards Biliteracy.

Spanish Course Descriptions:

Spanish Level 1

Students begin to develop their competence in Spanish across three modes of communication: interpersonal, presentational, and interpretative. Performance-based assessments in the presentational and interpersonal modes (speaking and writing) provide the students the opportunity to use the language in practiced, familiar contexts. Interpretive listening and reading tasks are focused on the acquisition and recognition of basic stated information in the target language. Additionally, students explore the cultures of the Spanish-speaking world, making comparisons and connections with their own experiences.

Prerequisites: None

Semesters: 2 **Credits:** 2

Course Code: 1st Semester -5221 , 2nd Semester - 5222

Grade Levels: 9-12

Spanish Level 2

Students continue to develop their competence in Spanish across the three modes of communication. Performance-based assessments in the interpersonal and presentational modes (speaking and writing) provide students the opportunity to use the language in practiced, familiar contexts as well as occasional, unfamiliar topics with increasing independence. Interpretive listening and reading is focused on the recognition of key details and making inferences about the content of authentic sources. Students continue to explore the cultures of the Spanish-speaking world in new contexts. Communication in class (teacher-student and student-student) is primarily in Spanish.

Prerequisites: Level 1 A & B

Semesters: 2 **Credits:** 2

Course Code: 1st Semester - 5251 , 2nd Semester - 5252

Grade Levels: 10-12 (9 with approval)

Spanish Level 3

Students continue to develop their competence in Spanish across the three modes of communication. Performance-based assessments in the interpersonal and presentational modes (speaking and writing) provide students the opportunity to use Spanish independently in familiar contexts, with the increasing ability to use the language in unfamiliar contexts. Interpretive listening and reading tasks are focused on both literal comprehension and inferential interpretation. Throughout the course, students continue to explore the cultures of the Spanish-speaking world in new contexts. In this course, students also read authentic literature including poems, short stories, and excerpts from novels. Communication in class (teacher-student and student-student) is entirely in Spanish.

Prerequisites: Level 2 A & B

Semesters: 2 **Credits:** 2

Course Code: 1st Semester -5281 , 2nd Semester - 5282

Grade Levels: 11-12

Spanish Level 4

An advanced-level, content-based Spanish course for both non-native and native advanced speakers, Spanish 4 is an alternate course for students who want to continue their language learning experience without the specific college level AP curriculum. A variety of authentic materials and cultural resources such as the use of short films, newspaper articles, video clips, short stories, and novels will be used to further develop the four language skills: listening, speaking, reading and writing. Students are assessed in the interpersonal, interpretive, and presentational modes of communication. The course also includes a year-long review of Spanish grammar. This course is conducted entirely in Spanish.

Note* It is recommended that only students who achieved a grade of C or higher in language level 3 continue to language level 4.

Prerequisites: Level 3 A & B

Semesters: 2 **Credits:** 2

Course Code: 1st Semester - 5307 , 2nd Semester - 5308

Grade Levels: 11-12

Spanish Course Descriptions (Cont.):

AP Spanish Language & Culture

Fenton's Advanced Placement Spanish course provides advanced study of language and culture and increases students' communicative proficiency levels. Students are expected to converse and write with grammatical accuracy and a high degree of fluency about contemporary cultural topics from six interdisciplinary thematic units: Families in Different Societies, Influence of Language and Culture on Identity, Influences of Beauty and Art, How Science and Technology Affect Our Lives, Factors that Impact the Quality of Life and Environmental, Political and Societal Challenges. In each thematic unit, students engage in activities and assignments focused on interpersonal, interpretive and presentational modes of communication. Students study authentic contemporary publications, historical texts, infographics, and original works of literature, and these texts are used as points of departure for classroom discussions. Students also study music, art, and other cultural aspects of the various countries, which encourage students to make connections between their lives and the worldwide community. Grammar is reviewed as needed in preparation for the Advanced Placement examination and class is conducted exclusively in the target language. As with all high school advanced placement courses, Fenton's Advanced Placement language course curriculum has been approved by the College Board.

Prerequisites: Level 3 A & B

Semesters: 2 **Credits:** 2

Course Code: 1st Semester - , 2nd Semester -

Grade Levels: 11-12



Spanish Heritage Speakers Course Descriptions:

Spanish 1 for Heritage Speakers

This Level 1 course is intended for the Heritage Spanish speaker who wants to improve mastery of Spanish. Conversational ability is required to enter this course and students must demonstrate some basic reading and writing knowledge through placement tests. Literacy skills in reading, writing, and vocabulary will be developed so students become proficient enough to continue to Spanish 2 for Heritage Speakers. The course will address specific needs of the group as grammatical and vocabulary gaps are noted. The class is conducted entirely in Spanish, using authentic resources.

Semesters: 2 **Credits:** 2

Course Code: 1st Semester - 5313, 2nd Semester – 5314

Grade Levels: 9-12

Spanish 2 for Heritage Speakers

This is the second course for Heritage Spanish Speakers who would like to improve their mastery of Spanish. The course is designed to address specific needs or areas of deficiency of the group as a whole, although individualized instruction will also be provided where necessary. Literacy skills in reading, writing and vocabulary continue to be developed so students become proficient enough to continue to Spanish 3 for Heritage Speakers. The class is conducted entirely in Spanish using various forms of authentic resources.

Note* It is recommended that only students who achieved a grade of C or higher in language level 1 continue to language level 2.

Prerequisite: Spanish 1 for Heritage Speakers

Semesters: 2 **Credits:** 2

Course Code: 1st Semester –5315 , 2nd Semester – 5316

Grade Levels: 9-12

Spanish 3 for Heritage Speakers

This is the third course for Heritage Spanish speakers. While continuing to address specific needs or deficiencies of the group as a whole, level 3 builds on previously introduced skills with emphasis on the three modes of communication: interpersonal, interpretive, and presentational. The class is conducted entirely in Spanish using various forms of authentic resources. Students who successfully complete this course may take AP Spanish Language if they meet the course recommendations or Spanish 4. I

Note* It is recommended that only students who achieved a grade of C or higher in language level 2 continue to language level 3.

Prerequisite: Spanish 2 or Spanish 2 for Heritage Speakers

Semesters: 2 **Credits:** 2

Course Code: 1st Semester –5317 , 2nd Semester – 5318

Grade Levels: 9-12

Spanish Heritage Speakers Course Descriptions:

AP Spanish Language and Culture

Fenton's Advanced Placement Spanish course provides advanced study of language and culture and increase students' communicative proficiency levels in each of the four language skills: listening, speaking, reading and writing. Students are expected to converse and write with grammatical accuracy and a high degree of fluency about contemporary cultural topics from six interdisciplinary thematic units: Global Challenges, Science and Technology, Contemporary Life, Personal and Public Identities, Families and Communities, and Beauty and Aesthetics. In each thematic unit, students engage in activities and assignments focused on interpersonal, interpretive and presentational modes of communication. Students study contemporary publications, historical texts, authentic texts, and original works of literature, and these texts are used as points of departure for classroom discussions. Students also study music, art, and other cultural aspects of the various countries, which encourage students to make connections between their lives and the worldwide community. Grammar is reviewed as needed in preparation for the Advanced Placement examination and class is conducted exclusively in the target language.

Note*: It is recommended that only students who achieved a grade of C or higher in language level 3 continue to language level 4.

Prerequisite: Spanish 3 or Spanish 3 for Heritage Speakers

Semesters: 2 **Credits:** 2

Course Code: 1st Semester-2051 , 2nd Semester-2052

Grade Levels: 11-12

French Course Descriptions:

French Level 1

Students begin to develop their competence in French across three modes of communication: interpersonal, presentational, and interpretative. Performance-based assessments in the presentational and interpersonal modes (speaking and writing) provide the students the opportunity to use the language in practiced, familiar contexts. Interpretive listening and reading tasks are focused on the acquisition and recognition of basic stated information in the target language. Additionally, students explore the cultures of the French-speaking world, making comparisons and connections with their own experiences.

Prerequisites: None

Semesters: 2 **Credits:** 2

Course Code: 1st Semester -5201 , 2nd Semester- 5202

Grade Levels: 9-12

French Level 2

Students continue to develop their competence in French across the three modes of communication. Performance-based assessments in the interpersonal and presentational modes (speaking and writing) provide students the opportunity to use the language in practiced, familiar contexts as well as occasional, unfamiliar topics with increasing independence. Interpretive listening and reading is focused on the recognition of key details and making inferences about the content of authentic sources. Students continue to explore the cultures of the French-speaking world in new contexts. Communication in class (teacher-student and student-student) is primarily in French.

Prerequisites: French 1 A & B

Semesters: 2 **Credits:** 2

Course Code: 1st Semester -5231 , 2nd Semester - 5232

Grade Levels: 10-12 (9 with approval)

French Level 3

Students continue to develop their competence in French across the three modes of communication. Performance-based assessments in the interpersonal and presentational modes (speaking and writing) provide students the opportunity to use French independently in familiar contexts, with the increasing ability to use the language in unfamiliar contexts. Interpretive listening and reading tasks are focused on both literal comprehension and inferential interpretation. Throughout the course, students continue to explore the cultures of the French-speaking world in new contexts. In this course, students also read authentic literature including poems, short stories, and excerpts from novels. Communication in class (teacher-student and student-student) is entirely in French.

Prerequisites: French 2 A & B

Semesters: 2 **Credits:** 2

Course Code: 1st Semester - 5261 , 2nd Semester - 5262

Grade Levels: 11-12

French Course Descriptions:

AP French Language and Culture

Fenton's Advanced Placement French course provides advanced study of language and culture and increases students' communicative proficiency levels. Students are expected to converse and write with grammatical accuracy and a high degree of fluency about contemporary cultural topics from six interdisciplinary thematic units: Families in Different Societies, Influence of Language and Culture on Identity, Influences of Beauty and Art, How Science and Technology Affect Our Lives, Factors that Impact the Quality of Life and Environmental, Political and Societal Challenges. In each thematic unit, students engage in activities and assignments focused on interpersonal, interpretive and presentational modes of communication. Students study authentic contemporary publications, historical texts, infographics, and original works of literature, and these texts are used as points of departure for classroom discussions. Students also study music, art, and other cultural aspects of the various countries, which encourage students to make connections between their lives and the worldwide community. Grammar is reviewed as needed in preparation for the Advanced Placement examination and class is conducted exclusively in the target language. As with all high school advanced placement courses, Fenton's Advanced Placement language course curriculum has been approved by the College Board.

Prerequisite: French 3 A & B

Semesters: 2 **Credits:** 2

Course Code: 1st Semester-2031 , 2nd Semester- 2032

Grade Levels: 11-12

German Course Descriptions

German Level 1

Students begin to develop their competence in German across three modes of communication: interpersonal, presentational, and interpretative. Performance-based assessments in the presentational and interpersonal modes (speaking and writing) provide the students the opportunity to use the language in practiced, familiar contexts. Interpretive listening and reading tasks are focused on the acquisition and recognition of basic stated information in the target language. Additionally, students explore the cultures of the German-speaking world, making comparisons and connections with their own experiences.

Prerequisites: None

Semesters: 2 **Credits:** 2

Course Code: 1st Semester - 5211 , 2nd Semester - 5212

Grade Levels: 9-12

German Level 2

Students continue to develop their competence in German across the three modes of communication. Performance-based assessments in the interpersonal and presentational modes (speaking and writing) provide students the opportunity to use the language in practiced, familiar contexts as well as occasional, unfamiliar topics with increasing independence. Interpretive listening and reading is focused on the recognition of key details and making inferences about the content of authentic sources. Students continue to explore the cultures of the German-speaking world in new contexts. Communication in class (teacher-student and student-student) is primarily in German.

Prerequisites: Level 1 A & B

Semesters: 2 **Credits:** 2

Course Code: 1st Semester - 5241, 2nd Semester - 5242

Grade Levels: 10-12 (9 with approval)

German Level 3

Students continue to develop their competence in German across the three modes of communication. Performance-based assessments in the interpersonal and presentational modes (speaking and writing) provide students the opportunity to use German independently in familiar contexts, with the increasing ability to use the language in unfamiliar contexts. Interpretive listening and reading tasks are focused on both literal comprehension and inferential interpretation. Throughout the course, students continue to explore the cultures of the German-speaking world in new contexts. In this course, students also read authentic literature including poems, short stories, and excerpts from novels. Communication in class (teacher-student and student-student) is entirely in German.

Prerequisites: Level 2 A & B **Semesters:** 2 **Credits:** 2

Course Code: 1st Semester - 5271 , 2nd Semester - 5272

Grade Levels: 11-12

German Course Descriptions

AP German Language and Culture

Fenton's Advanced Placement German course provides advanced study of language and culture and increases students' communicative proficiency levels. Students are expected to converse and write with grammatical accuracy and a high degree of fluency about contemporary cultural topics from six interdisciplinary thematic units: Families in Different Societies, Influence of Language and Culture on Identity, Influences of Beauty and Art, How Science and Technology Affect Our Lives, Factors that Impact the Quality of Life and Environmental, Political and Societal Challenges. In each thematic unit, students engage in activities and assignments focused on interpersonal, interpretive and presentational modes of communication. Students study authentic contemporary publications, historical texts, infographics, and original works of literature, and these texts are used as points of departure for classroom discussions. Students also study music, art, and other cultural aspects of the various countries, which encourage students to make connections between their lives and the worldwide community. Grammar is reviewed as needed in preparation for the Advanced Placement examination and class is conducted exclusively in the target language.

Prerequisite: German 3

Semesters: 2 **Credits:** 2

Course Code: 1st Semester-2041 , 2nd Semester- 2042

Grade Levels: 11-12

CAREER EXPLORATION PROGRAMS OF STUDY

Fenton High School is committed to providing rigorous and relevant educational opportunities to meet the needs of the whole child. Career Exploration opportunities not only help students define their passions, but prepare them for post-secondary education/training opportunities and future success in the workplace.

Fenton provides dozens of “Programs of Study” in seven distinct Career Pathway areas: Agriculture, Food & Natural Resources, Arts & Communications, Computer & Information Technology, Finance & Business Services, Health Sciences & Technology, Human & Public Services, Manufacturing, Engineering, Technology & Trades. Participation in any Career Exploration Program of Study will help students develop career awareness, develop their skills for employment, engage them in authentic learning experiences, allow them to interact with industry professionals and standards, and inform their future college & career decisions.



Career Exploration Programs of Study

■ General Career Readiness	57
■ Agriculture, Food & Natural Resources	60
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GENERAL CAREER READINESS COURSES:

The State of Illinois has defined the top 10 Cross-Sector Essential Employability Competencies as follows:

1. Teamwork and Conflict Resolution
2. Communication
3. Problem Solving
4. Decision Making
5. Critical Thinking
6. Adaptability and Flexibility
7. Initiative and Self-Drive
8. Reliability and Accountability
9. Cultural Competence
10. Planning and Organizing

Participation in Fenton's General Career Readiness courses will promote growth in these competencies.



General Career Readiness Courses:

Career Internship

The Career Internship program will provide students with an exciting opportunity for hands-on career exploration in a variety of occupations. Students will spend approximately 60 - 75 hours over the course of three months with a mentor at a sponsoring site. Students will observe daily operations, converse with staff, and contribute to the activities of a local business or organization. Students will spend the first week of the program working on career exploration activities. During the 3-month internship, students will learn career success skills one period a day and be released from the building two periods a day to complete observation hours. The final 2-3 weeks of the semester will be spent sharing and evaluating the internship experience. Students who choose to participate in the Career Internship program are obligated to fulfill their observation requirements at their internship site. Transportation to and from the internship site is the responsibility of the student, but may be provided by the school to certain internship sites.

Prerequisites: Teacher or counselor recommendation/approval of the instructor.

Semesters: 1 **Credits:** 2.5

Course Code: A 7623-3Per, B 7624-3 Per, A 7625-2Per, B 7626-2Per

Grade Levels: 11, 12

Consumer Education

Do you feel that you are ready for life after high school? Are you confident that you will have enough money to support yourself and live the type of lifestyle you want to live? By enrolling in Consumer Education, you will take the first step in preparing for a successful future by learning how to manage credit, invest for retirement, and budget everyday expenses. Students will also complete projects on buying a new home and buying a new or used car. Students will gain a greater understanding of basic economic concepts so they can make informed buying decisions and learn how to manage their money.

Note: This Course Meets The Consumer Education Graduation Requirement.

Prerequisites: None

Semesters: 1 **Credits:** 1 **Course Code:** 7075

Grade Levels: 11-12

General Career Readiness Courses:

Leadership for Life

This course encourages students to develop self-awareness and self-management skills to achieve school and life success, recognize personal qualities and external supports, demonstrate skills related to achieving personal and academic goals, school, and life success, use social awareness and interpersonal skills to establish and maintain positive relationships, and demonstrate decision-making skills and responsible behaviors in personal, school, and community contexts.

Prerequisites: None **Semester(s):** 1

Credits: 1

Course Code: 4013

Grade Levels: 10-12 (Seniors may enroll 1st semester only)

Pre-Vocational Program

Students who are 16 years or older are introduced to the world of work. Classroom instruction focuses on skills to obtain and maintain a job. Career exploration is individualized to each student's interests and abilities. Second semester is focused on consumer education skills. Students are to maintain a job working 15 hours per week. Students have the opportunity to enroll with the Department Rehabilitation Services for post secondary services. Students will need to provide a social security number and a parent signature to begin the referral process. This will assist students with career preparation and placement after graduation. In addition, students will create an online portfolio. This includes assessments, interest inventory, and resumes. **NOTE:** This course meets the Consumer Education Requirements for Graduation.

Prerequisites: Placement determined by IEP Team

Semesters: 2 **Credits:** 2

Course Code: 1st Semester - 00411 2nd Semester - 00412

Grade Levels: 11, 12

AGRICULTURE, FOOD & NATURAL RESOURCES

Are you interested in protecting the environment? Do you like to work outside? Are you a nature lover? Are you interested in caring for plants and/or animals? Are you interested in the Physical Sciences. If you answered yes to any of these questions, then a career in agriculture, food and natural resources.

As a worker in this career, you might work on a farm, ranch, dairy, orchard, greenhouse, or plant nursery. You could also work in a clinic or laboratory as a scientist or engineer. Or, you might sell services that farmers or ranchers use to improve products.



Although Fenton does not provides any specific Programs of Study in this area, the following related coursework is offered:

AP Chemistry

AP Environmental Science

Foundations of Scientific Research

Geoscience

Agriculture, Food & Natural Resources:

Geoscience

Students enrolled in Geoscience have the opportunity to observe and study the physical environment. Major topics covered include the Earth's changing surface, the composition of the surface, Earth history, Astronomy, weather, Oceanography, and climate. The impact on the environment by humans is continually investigated. The course of study utilizes text, video, and laboratory experiences.

Prerequisites: Two years required science coursework. **Semesters:** 2 **Credits:** 2

Course Code: 1st Semester - 5671, 2nd Semester - 5672 **Grade Levels:** 11,12

AP Environmental Science

The AP Environmental Science course is designed to be the equivalent of a one-semester, introductory college course in environmental science. The goal of the AP Environmental Science course is to provide students with the scientific principles, concepts, and methodologies required to understand the interrelationships of the natural world, to identify and analyze environmental problems both natural and human-made, to evaluate the relative risks associated with these problems, and to examine alternative solutions for resolving or preventing them. Environmental science is interdisciplinary; it embraces a wide variety of topics from different areas of study. Students enrolled in this course will be preparing to take the AP exam in May. Students who earn a successful score on this test may receive college credit in one of the many participating colleges throughout the country.

Prerequisites: A grade of B or better in a previous full year math course and successful completion of 2 science courses or with administrative approval or teacher recommendation.

Semesters: 2 **Credits:** 2

Course Code: 1st Semester - 2085, 2nd Semester - 2086 **Grade Levels:** 11,12

Foundations of Scientific Research

Foundations of Scientific Research is for students concurrently enrolled in a science course and will provide opportunities for developing literacy skills in the context of those courses and for extending learning in those course topics. By enrolling in the course, students will develop and be evaluated on skills in interpreting scientific literature and evaluating the quality of research studies in science and medicine as well as conducting their own research and experiments. Students will develop scientific vocabulary necessary for success in college level science courses. Students on a career pathway towards health and other science related fields will benefit from this course. Students will learn to "Think like a scientist!"

Prerequisites: None

Semesters: 2 **Credits:** 2

Course Code: 1st Semester - 2075, 2nd Semester - 2076

Grade Levels: 11,12

AP Chemistry

Advanced Placement Chemistry is designed to be the equivalent of a college introductory course usually taken by chemistry majors during their first year. AP chemistry differs from a typical high school course with respect to the laboratory work done by students and the time and effort outside of class required by students. Course content will emphasize topics in inorganic chemistry, and will involve a great amount of mathematical problem-solving and explanation of chemical concepts. The College Board suggests taking Physics either before or concurrently with this course. Students enrolled in AP Chemistry will be expected to take the Advanced Placement examination given in May. Students who earn a successful score on this test may receive college credit.

Prerequisites: Two years required science coursework, Chemistry (earning a grade of A or B), and Algebra 2

Semesters: 2 **Credits:** 2

Course Code: 1st Semester - 2081, 2nd Semester - 2082

Grade Levels: 11,12

ARTS & COMMUNICATION

Careers in arts and communication combine creative expression and interpersonal skills to create innovative work.

Careers in this area are related to humanities and performing, visual, literary, and media arts. These include architecture, graphics, interior and fashion design, writing, film, fine arts, journalism, languages, media, advertising, and public relations.

If you are a creative thinker, imaginative, innovative, and original this may be the career path for you!



Career Exploration in the Arts & Communications are available in the following Programs of Study:

Music Performance

Music Production

Performance Arts

Visual Arts

Writing

World Languages

Music Performance (Instrumental) Program of Study:

Concert Band

The Concert Band is open to all Fenton students with a minimum of two years prior instrumental experience or director approval. Activities for this class will include, but not be limited to, scales, chorales, tone production, challenging literature, critical listening, and music analysis. Students can expect to perform at all Fenton Band concerts and Pep Band games. Students in this ensemble will be expected to attend rehearsals and performances outside of the school day. Students in Concert Band may choose to be members of the marching band. Should they choose to be a member of the marching band, they will need to attend a band camp prior to the beginning of the year and attend rehearsals and performances outside of the school day. This class will be scheduled concurrently with a lunch period to provide flexibility to meet the various needs of combined class rehearsals. Students may take concert for accelerated credit (Grades 10-12 only).

Prerequisites: Selection based upon proficiency, audition, or teacher approval

Semester(s): 2

Credit(s): 2 **Course Code:** 1st Semester - 6331 2nd Semester - 6332

Grade Level(s): 9-12

Fee:\$33.00 (for Marching Band shoes)

Guitar

This course is for the beginning guitar student. Activities in this class will include, but not be limited to, reading and notating music, playing a wide variety of guitar literature, and developing critical listening skills.

Prerequisites: None

Semester(s): 2 **Credit(s):** 2

Course Code: 1st Semester - 6361 2nd Semester - 6362

Grade Level(s): 9-12

Fee:\$14.00(Workbook)

Guitar Ensemble

This course is for the developing guitar student. Activities in this class will include, but not be limited to, reading and notating music, playing a wide variety of guitar literature, and developing critical listening skills. Students in this class will be expected to perform at two-four performances per semester. Some of these performances may be outside of the school day.

Prerequisites: Guitar or approval of instructor

Semester(s): 2 **Credit(s):** 2

Course Code: 1st Semester - 6376 2nd Semester - 6377

Grade Level(s): 10-12

Fee:\$15.00 (Workbook)

Piano 1

This course is for the beginning piano student. Activities in this class will include, but not be limited to, reading and notating music, playing a wide variety of piano literature, and developing critical listening skills.

Prerequisites: None

Semester(s): 2 **Credit(s):** 2

Course Code: 1st Semester - 6391 2nd Semester - 6392

Grade Level(s): 9-12

Fee:\$9.00 (Workbook)

Piano 2

This course is for the developing piano student. Activities in this class will include, but not be limited to, reading and notating music, playing a wide variety of piano literature, and developing critical listening skills.

Prerequisites: Piano 1 or permission of instructor

Semester(s): 2 **Credit(s):** 2

Course Code: 1st Semester - 6401 2nd Semester - 6402

Grade Level(s): 10-12

Fee:\$9.00 (workbook)

Music Performance (Instrumental)

Program of Study (Cont.):

Symphonic Wind Ensemble

The Symphonic Wind Ensemble is the premiere instrumental ensemble at Fenton High School. Activities in this class will include, but not be limited to, scales, chorales, advanced rehearsal techniques, tone production, critical listening, and music analysis. This ensemble rehearses and performs advanced band literature. Students can expect to perform at all Fenton Band concerts and Pep Band games. Students in Symphonic Wind Ensemble may choose to be members of the marching band. Should they choose to be a member of the marching band, they will need to attend a band camp prior to the beginning of the year and attend rehearsals outside of the school day. This class will be scheduled concurrently with a lunch period to provide flexibility to meet the various needs of combined class rehearsals. This class may also be taken for Accelerated credit (10-12 graders only).

Prerequisites: Selection base upon proficiency, audition, or teacher approval

Semester(s): 2

Credit(s): 2 **Course Code:** 1st Semester - 6341 2nd Semester - 6342

Grade Level(s): 9-12

Fee: \$28.00 (for Marching Band shoes)



Accelerated Symphonic Wind Ensemble/Concert Band

Students may take Symphonic Wind Ensemble or Concert Band-for Accelerated Credit. Students in Accelerated Symphonic Wind Ensemble/Concert Band must meet the regular course requirements as

well as choose six of the following options:

- Receive private lessons on your instrument.
- Provide private lessons to underclassmen or younger band students.
- Perform a Solo at Solo & Ensemble festival.
- Perform a director approved solo during class, at a scheduled performance, or at a special event.
- Prepare and perform IMEA audition material for your director as well as audition for IMEA.
- Perform in a director approved extra-curricular ensemble outside of school.
- Perform in a small ensemble at Solo & Ensemble festival, in class, or at a scheduled concert.
- Audition for and participate in an extracurricular school ensemble.
- Attend a director approved collegiate or professional performance and write a critique.
- Write a research paper about one of the selections that you performed as a solo work or small ensemble.
- Write a research paper on your instrument.
- Choose a famous artist that performs your instrument and write a report on them as well as critique some of their recordings.
- Participation in Marching Band.

Prerequisites: One year participation in a performing ensemble or teacher recommendation and audition

Semester(s): 2 **Credit(s):** 2

Course Code: 1st Semester - 6355 2nd Semester - 6356

Grade Level(s): 10-12

Fee: \$28.00 (for Marching Band shoes)

Music Performance (Vocal) Program of Study:

Chorale

The Chorale is a group designed for the developing vocal musician. Students will learn the basics of musicianship and proper vocal production techniques, while studying a wide variety of choral literature. This group performs in all of the regularly scheduled concerts of the school year. In Chorale, the music materials focus upon easy to moderately difficult multiple part writing for bass and treble voices.

Prerequisites: None

Semester(s): 2 **Credit(s):** 2

Course Code: 1st Semester - 6311 2nd Semester - 6312

Grade Level(s): 9-12

Treble Choir

The Treble choir is an intermediate level vocal group for treble voiced singers. Students will learn the basics of musicianship and proper vocal production techniques, while studying a wide variety of choral literature. This group performs in all of the regularly scheduled concerts of the school year. In Treble Choir, the music materials focus upon easy to moderately difficult two-and three part writing for treble voices.

Prerequisites: None

Semester(s): 2 **Credit(s):** 2

Course Code: 1st Semester - 6301 2nd Semester - 6302

Grade Level(s): 9-12



Music Performance (Vocal) Program of Study (Cont.):

Concert Choir

The Concert Choir is the premiere vocal ensemble at Fenton High School. Students will continue to develop sight-reading skills, ear training skills and vocal production, while studying a wide variety of choral literature. This group performs in all of the regularly scheduled concerts of the school year and additional performances in the community. In Concert Choir, the music materials focus upon moderate to advanced multiple-part writing for bass and treble voices.

Prerequisites: Previous reason or director approval

Semester(s): 2 **Credit(s):** 2

Course Code: 1st Semester - 6321 2nd Semester - 6322

Grade Level(s): 10-12

Accelerated Concert Choir

Students may take Concert Choir for Accelerated Credit. Students in Accelerated Concert Choir must meet the regular course requirements as well as choose six of the following options:

- Receive private voice lessons
- Provide private lessons to underclassmen or younger vocal student
- Perform a Solo at Solo & Ensemble festival
- Perform a director approved solo during class, at a scheduled performance, or at a special event
- Prepare and perform IMEA audition material for your director as well as audition for IMEA
- Perform in a director approved extra-curricular ensemble outside of school
- Perform in a small ensemble at Solo & Ensemble festival, in class, or at a scheduled concert
- Audition for and participate in an extracurricular school ensemble
- Attend a director approved collegiate or professional performance and write a critique.
- Write a research paper about one of the selections that you performed as a solo work or small ensemble
- Write a research paper about your instrument/voice
- Choose a famous artist that performs your part or instrument and write a report on them as well as critique some of their recordings

Prerequisites: One year participation in a performing ensemble or teacher recommendation and audition

Semester(s): 2 **Credit(s):** 2

Course Code: 1st Semester - 6323 2nd Semester - 6324

Grade Level(s): 10-12

Other Related Music Performance Courses:

Music Production

Music Production is a career-focused course designed for students interested in all aspects of music and music production. Student projects will include but not be limited to composing music through a variety of mediums for the purposes of music videos, video games/movie soundtracks, promotional materials, etc. Students in this class will also develop skills for live sound recording, sound reinforcement, and basic music theory.

Prerequisites: None

Semester(s): 1 **Credit(s):** 1

Course Code: 6355

Grade Level(s): 11,12

Advanced Placement Music Theory

AP Music Theory is a full year course that is equivalent to that of an entry level college course in music theory. This course is for students who wish to pursue an in-depth study of melody, harmony, texture, rhythm, form, musical analysis, composition, and to some extent, history and style. Musicianship skills such as dictation and other listening skills, sight-reading or sight-singing, and keyboard harmony are considered elements of the course, as is the acquisition of advanced music terminology. Enrollment in this course assumes at least a basic to intermediate skill level related to reading and writing musical notation as well as performance skills in either vocal or instrumental production. This class would prepare students for the AP Music Theory test in May.

Prerequisites: One semester of high school choir, band, guitar, piano, or teacher approval.

Semester(s): 2 **Credit(s):** 2

Course Code: 1st Semester - 2115 2nd Semester - 2116

Grade Level(s): 10-12

Performance Arts Program of Study:

Theatre

This course is designed to increase a student's knowledge about all aspects of theatre: acting, makeup, costuming, scene design, publicity, theatre history, and play reading. Students are required to attend current Fenton High School theatre productions.

Prerequisites: None

Semester (s): 1 **Credit (s):** 1

Course Code: 5135

Grade Level (s): 9,10,11,12

Acting

This activity class teaches the fundamentals of acting: movement, improvisation, pantomime, and ensemble performance. Students will memorize and perform monologues and scenes. Since this is a performance class, student self-discipline is essential. Students are required to attend current Fenton High School theatre productions.

Prerequisites: None

Semester (s): 1 **Credit (s):** 1

Course Code: 5051

Grade Level(s): 9,10,11,12



Visual Arts (2D Art) Program of Study:

2D Art 1 (Cartooning, Digital, Drawing, Painting)

Learning how to observe details to draw, create cartoon characters and paint naturally are the major outcomes of 2D Art 1. Personalized experimentation of a subject matter is explored in this course. Media variety includes pencil, charcoal, marker, oil pastels, acrylic paint and watercolor. Multiple themes and styles will be covered and students will leave this class speaking the language of art. Students who enjoy working in 2D can continue on in 2D Art 2.

Prerequisites: None **Semester(s):** 1 **Credit(s):** 1

Course Code: 2125

Grade Level(s): 9, 10, 11, 12

Fee: \$15.00

2D Art 2 (Cartooning, Digital, Drawing, Painting)

This advanced 2D class focuses on drawing, cartooning and painting from direct observation, rendered two dimensional images and memory while reinforcing expressive color qualities within the art piece. 2D Art 2 focuses on contemporary art styles in drawing, cartooning and painting. A personal interpretation of portraits, cartoon characters, figure, landscape, design and still life are goals of this course. Media variety includes oil pastels, Prismacolor pencils, markers, charcoal pastels, oil paint and watercolors. This course focuses on developing a great sense of using color for expressive qualities while developing personal interpretation of a subject matter. Students who enjoy working in 2D can continue in AP 2D Art.

Prerequisites: Studio Art: 2-D Design 1, Painting 1, or Drawing 1 **Semester(s):** 1 **Credit(s):** 1

Course Code: 2126

Grade Level(s): 9, 10, 11, 12

Fee: \$15.00

AP 2D Art (Cartooning, Digital, Drawing, Painting)

This 2 semester course is the third level for Drawing, Painting, Cartooning and Digital Art. AP 2-D Design (Drawing, Painting, Cartooning, Digital Art) is designed to prepare students with a professional portfolio used for entrance into a college art program. The course emphasizes independent thematic work in the artist's choice of two dimensional medium. Students enrolled in this course submit their portfolio to the College Board instead of taking an Advanced Placement Exam. All students will prepare a personal artist's statement to be included with their portfolio presentation in Fenton's Annual Art Festival. Students may take this course two times.

Prerequisites: 2D Art 1, 2D Art 2, Painting, Drawing, Cartooning or teacher approval

Semester(s): 2 **Credit(s):** 2

Course Code: 1st Semester-2129, 2nd Semester-2130

Grade Level(s): 10,11,12

Fee: \$15.00

Visual Arts (Photography) Program of Study:

Photo 1 (Digital Photo and Computer Art)

Photo 1 offers students the opportunity to create digital photography and computer art. Students will master the foundations of the digital camera, composition, visual literacy, the digital darkroom and Photoshop tools/techniques. Bridge cameras will be available for students to loan. Students will develop a portfolio to showcase their accomplishments and have the option of entering a local art show.

Prerequisites: None **Semester(s):** 2 **Credit(s):** 1
Course Code: 7755
Grade Level(s): 9, 10, 11, 12
Fee: \$5.00

Photo 2 (Digital Photo and Computer Art)

Photo 2 builds upon Photo 1, taking students to an advanced level of creating photographic compositions and computer art. Students taking this class will master manual settings of their digital cameras and advanced tools/techniques of Photoshop. Fine art, advertising, and stop motion animation will be explored. Students will choose an area of concentration, develop a portfolio, and have the option of entering a local art show. Bridge cameras will be available for students to loan.

Prerequisites: Photo 1, Digital Photo, or teacher approval
Semester(s): 1 **Credit(s):** 1
Course Code: 7737
Grade Level(s): 9, 10, 11, 12
Fee: \$5.00

AP 2D Art (Photography)

This 2 semester course is the third level for Photo and is designed for students to learn critical decision making skills. This course will prepare students with a professional portfolio used for entrance into a college art program. The course emphasizes independent thematic work in the artist's choice of photography, computer art, or mixed media. SLR cameras will be mastered and available to loan. Students enrolled in this course submit their portfolio to the College Board instead of taking an Advanced Placement Exam. All students will prepare a personal artist's statement to be included with their portfolio presentation in Fenton's Annual Art Festival. Students may take this course two times.

Prerequisites: Photo 1 & Digital Photo, Photo 2 or Teacher Approval
Semester(s): 2 **Credit(s):** 2
Course Code: 1st Semester 2133 2nd Semester 2134
Grade Level(s): 10, 11, 12
Fee: \$15.00

Visual Arts (3D Art) Program of Study:

3D Art 1 (Ceramics, Jewelry, Sculpture)

3D Art 1 is for the artist wanting to explore clay, metal, plaster, wire, wood, mosaics or mixed media as a means of artistic expression. Original fine and functional art will be designed, created, and evaluated by students. Students will develop a portfolio to showcase their accomplishments and have the option of entering a local art show.

Prerequisites: None

Semester(s): 1 **Credit(s):** 1

Course Code: 2127

Grade Level(s): 9, 10, 11, 12

Fee: \$15.00

3D Art 2 (Ceramics, Jewelry, Sculpture)

3D Art 2 is for the artist who has mastered the foundational techniques of 3D Art 1 (or the formerly offered Ceramics 1, Jewelry 1, or Sculpture 1). This course continues to build artists' expertise using three dimensional art as a means of expression. Students will have the choice of creating original works using media such as clay, enameling, metal, plaster, wire, wood, mosaics or mixed media. Artists will have the options of using the potter's wheel and partaking in an outdoor raku firing.

Prerequisites: 3D 1, Ceramics, Jewelry, Sculpture or teacher approval

Semester(s): 1 **Credit(s):** 1

Course Code: 2128

Grade Level(s): 9, 10, 11, 12

Fee: \$15.00

AP 3D Art (Ceramics, Jewelry, Sculpture)

This 2 semester course is the third level for 3D Art and will prepare art students with a professional portfolio used for entrance into a college art program. The course emphasizes independent thematic work in the artist's choice of three dimensional media used in 3D Art 1 and 2. Students enrolled in this course submit their portfolio to the College Board instead of taking an Advanced Placement Exam. All students will prepare a personal artist's statement to be included with their portfolio presentation in Fenton's Annual Art Festival. Students may take this course two times.

Prerequisites: 3D 2, Ceramics 2, Jewelry 2, Sculpture 2 or teacher approval

Semester(s): 2 **Credit(s):** 2

Course Code: 1st Semester-2131, 2nd Semester-2132

Grade Level(s): 10-12

Fee: \$15.00

Other Related Visual Arts Courses:

AP Art History

Art history is the study of all life through the story of art. It is a journey through time using humanity's creativity as a guide. Through examining works of art from diverse cultures, religions, genders and historical periods, students develop a deep understanding of how to analyze and interpret art. Students learn to restrain judgment by cultivating an appreciation for all art forms and styles. This course prepares students for the Advanced Placement Exam in Art History.

Prerequisites: None **Semester(s):** 2 **Credit(s):** 2

Course Codes: 1st Semester - 2121, 2nd Semester - 2122

Grade Level(s): 10-12



Writing Courses:

Creative Writing

Creative Writing is an elective course for students who wish to express themselves imaginatively in writing. Reading models and keeping a journal furnish sources of ideas for expression; students work with prose forms of description and narration and writing techniques such as the use of images, sensory details, and symbols. Students work independently on completion of plays, short stories, and poetry; therefore, student self-discipline is required. Students are encouraged to submit their work to a publication.

Prerequisites: English 2 or Accelerated English 2

Semester (s): 1 **Credit (s):** 1

Course Code: 5105

Grade Level (s): 11,12

Science Fiction

The body of literature and film known as science fiction takes students on an excursion into imaginary worlds exploring social, political, and ethical issues to provide new perspectives with which to consider the future. Readings and films for this class include works of pure fantasy and escapism as well as possible positive and destructive implications of scientific achievements. In this way, the science fiction elective gives students purpose as they slide at breakneck speed into the potential wonders - and horrors - of the future.

Prerequisites: English 1

Semester (s): 1 **Credit (s):** 1

Course Code: 5095

Grade Level (s): 10,11,12

World Languages Program of Study:

All World Language Courses can be found beginning on page 47 of this guide.

Programs are available in the following languages:

French
German
Heritage Spanish Speakers
Spanish

Fenton provides the following related coursework in the area of Computer & Information Technology:

AP Computer Science A

AP Computer Science Principles

Computer Hardware Repair

Computer Operating Systems

Game Design

COMPUTER & INFORMATION TECHNOLOGY

Computer & Information Technology involves the use and study of computers, networks, computer languages, and databases. The use of technology to solve real problems continues to grow within our everyday lives, and the job demand in this area is growing faster than most other industries. There is a high demand for Computer & Information Technology jobs in Illinois and across the world. Careers in this field pay higher than most average salaries, provide a great deal of variety, and provides a very interactive work environment. Careers within this field may include: programming, networking, server administration, information security, database design and development, systems analysis and designing. And web development.



Computer & Information Technology Courses:

AP Computer Science Principles

AP Computer Science Principles is a full-year mathematics elective course offering a multidisciplinary approach to teaching the underlying principles of computation. The course will introduce students to the creative aspects of programming, abstractions, algorithms, large data sets, the Internet, cyber security concerns, and computing impacts. AP Computer Principles will give students the opportunity to use technology to address real-world problems and build relevant solutions. Together, these aspects of the course make up a rigorous and rich curriculum that aims to broaden participation in computer science. This course does not count towards the mathematics requirements for graduation. All 10th and 11th graders must be enrolled in a mathematics course concurrently with this course.

Prerequisites: Successful completion of Algebra 1 and Geometry or with administrative approval.

Semesters: 1 **Credits:** 1

Course Code: 1st Semester - 2073, 2nd Semester - 2074,

Grade Levels: 10,11,12

AP Computer Science A

AP Computer Science A introduces students to computer science through programming. Fundamental topics in this course include the design of solutions to problems, the use of data structures to organize large sets of data, the development and implementation of algorithms to process data and discover new information, the analysis of potential solutions, and the ethical and social implications of computing systems. The course emphasizes object-oriented programming and design using the Java programming language. All 10th and 11th graders must be enrolled in a mathematics course concurrently with this course.

Prerequisites: Successful completion of Math 1 and Math 2 or with administrative approval

Semester(s): 2 **Credit(s):** 2

Course Code: Semester 1 - 2079 Semester 2 - 2080

Grade Level(s): 10, 11, 12



Computer & Information Technology Courses:

Computer Operating Systems

This course teaches students both basic and advanced knowledge of Windows 7 and 10. Students will learn to use clean out viruses, remove spyware, and speed up a slow machine. We cover techniques to fix common problems and research online to find answers to more complex issues. Almost all of the programs used are free so anything learned in class can be directly applied for use at home. The class is helpful if you are a beginner or experienced and intend to work in the field.

Prerequisites: None

Semester (s): 1 **Credit (s):** 1

Course Code: 1st Semester - 7904

Grade Level (s): 10,11, 12

Computer Hardware Repair

In this course the students will learn the basic operation of a computer system. They will identify the major components found in a personal computer, perform simple maintenance, and use troubleshooting techniques to identify a malfunctioning component. This course includes hands-on work in which they will remove, configure, and install hard drives, CD/DVD drives, video and sound cards, and additional peripherals. At the end of the course each student will research and build a virtual computer. The students will have the option of purchasing the components and actually building this computer in class for their own use.

Prerequisites: None

Semester (s): 1 **Credit (s):** 1

Course Code: 1st Semester - 7903

Grade Level (s): 9,10,11, 12

Game Design

Game Design is a one semester course which covers many diverse skills in the field of game design. Students will complete four major games and several smaller "tech demo" projects. The primary goal is to teach programming using a graphical approach. While higher level concepts like loops and object oriented structures can cause great frustration when built with conventional programming languages, the software for this course easily facilitates the problem-solving process. In addition to programming, students will also do basic graphic design, a short 3D modeling project, level design, re-search game related subjects, and give formal presentations of their work to the class. The projects for this course can be varied to accommodate students of all skill levels, from expert programmer to complete novice.

Prerequisites: None

Semester (s): 1 **Credit (s):** 1

Course Code: 1st Semester - 7910

Grade Level (s): 9,10,11,12

FINANCE & BUSINESS SERVICES

Finance & Business Services includes occupations that manage and implement policy and strategy for an organization's capital structure, budgeting, acquisition and investment, financial modeling and planning, funding, dividends, and taxation.

Persons trained in fields such as business management, international trade, and various financial services specialties (e.g., accounting, banking, hospitality & tourism) will find that their skills are highly marketable. In these Programs of Study, students master basic business principles and procedures. Because almost every business and organization has a financial and management component, students who select this pathway will find that opportunities exist in many different career sectors in addition to those in business and finance.

Career Exploration in Finance & Business Services are available in the following Programs of Study:

Business Management

Finance



Finance Program of Study:

Accounting

This course creates an awareness of the importance of accounting in the contemporary business organization and introduces students to the fundamentals of processing data and to special accounting and financial reporting procedures. The computer will be used on selected accounting applications. The classroom environment is set up as if in a corporate setting. A group simulation in which accounting records are maintained for a small business concludes the course. Accounting is an important course that will give you a solid background for further study in college, prepare you for a job and provide you with an understanding of how financial decisions are made. This course provides students with a basic understanding of the elements of financial records, systems and procedures.

Prerequisites: None **Semesters:** 2 **Credits:** 2
Course Code: 1st Semester - 7041, 2nd Semester - 7042
Grade Levels: 10, 11, 12

AP Microeconomics

AP Microeconomics is a second semester course that examines how individuals (such as consumers and producers) make decisions and how these decisions affect our everyday lives. Topics discussed include the forces of supply and demand, costs of production, consumer choice, behavioral economics, and the role of government. Students who enroll in this course will have the opportunity to earn college credit by taking an AP examination in the spring.

NOTE: It is recommended that you have either taken Algebra 2 or are taking it concurrently with this course.

Prerequisites: AP Macroeconomics
Semesters: 1 **Credits:** 1
Course Code: 2nd Semester - 2097
Grade Levels: 11-12

Investment Management

This course is designed to introduce students to the complex world of investments. Students enrolled in this course will have the opportunity to learn about financial planning, stocks, mutual funds, futures and options, and other types of investments. Simulations, such as participating in a virtual stock exchange, will provide hands-on experience to the “ups and downs” of financial markets. Other topics of discussion will include investment philosophies, identifying and managing risk, and strategies to effectively analyze companies. Any student interested in the business field should find that this course will build a strong foundation for their personal and future interests.

Prerequisites: None **Semesters:** 1 **Credits:** 1 - 2
Course Code: 7096
Grade Levels: 11-12

AP Macroeconomics

This first semester course examines various methods in which society reacts to developments that occur in our economy and represents an introductory college-level Macroeconomics course. Economic issues that once plagued our economy, such as high unemployment rates, home foreclosures, and our \$23 trillion national debt are a few of the many topics of discussion. Students will apply economic theory that is presented in class in an effort to provide solutions to various economic problems that can persist in any given country. Students will have an opportunity to earn college credit by taking an AP examination in the spring, and successful completion of this course will fulfill the Consumer Education graduation requirement.

NOTE: It is recommended that you have either taken Algebra 2 or are taking it concurrently with this course.

Prerequisites: None
Semesters: 1 **Credits:** 1
Course Code: 1st Semester - 2098
Grade Levels: 11, 12

Business Management Programs of Study:

Business Enterprise (Virtual Enterprises International)

Virtual Enterprises International is a comprehensive business course offered to junior and senior business students. This exciting course will give students an opportunity to plan and operate a virtual business from the ground up. Students will work in various departments, including Accounting, Marketing & Design, Sales, Human Resources and Administration. Unlike a traditionally taught high school course, the teacher in this class guides the students as they make all decisions relating to their business. Students will have the opportunity to travel to Tennessee for a trade show. Any student who is serious considering a future business career should sign up for this course.

Prerequisites: None

Semesters: 2 **Credits:** 2

Course Code: 1st Semester - 7007 2nd Semester - 7008

Grade Levels: 11-12

Business Law

Business Law involves those consumer laws which affect all who live in a business-oriented society. Cases, skits, and illustrations are used to help students understand laws relating to contracts, employment, marriage, apartment leases, buying a home, family insurance, buying and insuring a car, sales, warranties, credit buying, borrowing money and more. Personal experiences of students and current events are also used in class discussions. Be prepared to participate in a mock trial where you will have the opportunity to apply what you have learned.

Prerequisites: None

Semesters: 1 **Credits:** 1 **Course Code:** 7095

Grade Levels: 10, 11, 12

Business Orientation

Business Orientation is an introductory course that examines different aspects of the business world. Students will form group businesses and will create and promote their own product line and brand, culminating in a “Shark Tank” pitch at the conclusion of the first semester. Topics of discussion include economics, owning and operating a business, production of goods and services, marketing and advertising products, and the management of financial documents and data. The second semester of the course focuses on consumer behavior and will help prepare students for life after high school.

Prerequisites: None

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

Course Code: 1st Semester - 7001 2nd Semester - 7002

Grade Levels: 9-10

Business Management Programs of Study (Cont.):

AP Macroeconomics

This first semester course examines various methods in which society reacts to developments that occur in our economy and represents an introductory college-level Macroeconomics course. Economic issues that once plagued our economy, such as high unemployment rates, home foreclosures, and our \$23 trillion national debt are a few of the many topics of discussion. Students will apply economic theory that is presented in class in an effort to provide solutions to various economic problems that can persist in any given country. Students will have an opportunity to earn college credit by taking an AP examination in the spring, and successful completion of this course will fulfill the Consumer Education graduation requirement.

NOTE: It is recommended that you have either taken Algebra 2 or are taking it concurrently with this course.

Prerequisites: None

Semesters: 1 **Credits:** 1

Course Code: 1st Semester - 2098

Grade Levels: 11, 12

AP Microeconomics

AP Microeconomics is a second semester course that examines how individuals (such as consumers and producers) make decisions and how these decisions affect our everyday lives. Topics discussed include the forces of supply and demand, costs of production, consumer choice, behavioral economics, and the role of government. Students who enroll in this course will have the opportunity to earn college credit by taking an AP examination in the spring.

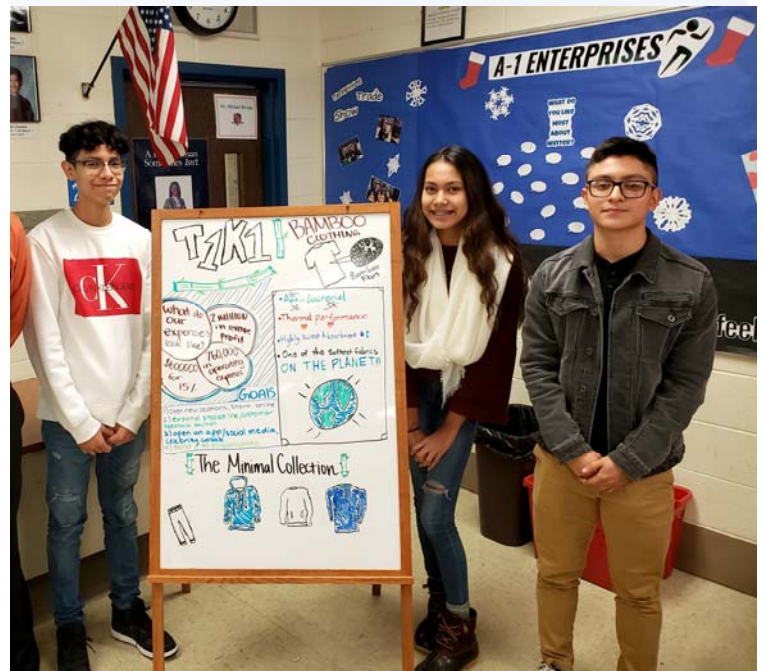
NOTE: It is recommended that you have either taken Algebra 2 or are taking it concurrently with this course.

Prerequisites: AP Macroeconomics

Semesters: 1 **Credits:** 1

Course Code: 2nd Semester - 2097

Grade Levels: 11-12



Other Finance & Business Management Courses:

Sports and Entertainment Marketing

Marketing is the tool that has allowed the United States economy to be one of the most successful in the world. Nearly one of every two Americans is employed in this field. Sports and entertainment are important parts of our modern economy. Fans and companies spend billions of dollars each year on sports. Entertainment is one of the largest exports from the United States to the rest of the world. This course will guide students on a step-by-step journey through the foundations of marketing-information management, financing, pricing, promotion, product/service management, distribution and selling. This course is recommended for students who plan to study marketing or business administration in college.

Prerequisites: None

Semesters: 1 **Credits:** 1 **Course Code:** 7131

Grade Levels: 10 - 12

HEALTH SCIENCES & TECHNOLOGY

Careers in this field aim to transform the quality, safety, and affordability of health care. Healthcare professionals combine technology and medicine to support patient-focused programs and systems and develop innovative healthcare practices.

Employment of health care occupations is projective to grow faster than the average for all occupations. There are a vast array of jobs available in this industry from doctors, researchers, therapists, nurses, medical technologists, transcriptionists, medical assistants, etc.

Most healthcare careers require interpersonal and communication skills, technical or mathematic capacity, and a strong work ethic. You also may be right for a career in this field if you love to learn new things and can show great care for other people.

Although Fenton does not provides any specific Programs of Study in this area, the following related coursework is offered:

AP Biology

AP Chemistry

AP Psychology

Fitness & Nutrition

Foundations of Scientific Research

Strength & Conditioning



Health Sciences & Technology Related Coursework:

AP Biology

Advanced Placement Biology is designed to be the equivalent of a college introductory course, usually taken by biology majors during their first year. Because of the rigor of this course, it is expected that students will possess a high level of motivation and a sound knowledge of chemistry. Students should expect to spend approximately 4 hours per week outside of class working on reading guides, free-response questions, lab reports, projects, and video notes. There is a summer assignment to review basic chemistry concepts and refresh math and graphing skills that will be due the first week of school. Topics studied in this course include biochemistry, ecology, cell biology, metabolism, photosynthesis, cell respiration, Mendelian & molecular genetics, biotechnology, evolution, and homeostasis. Students in AP Biology will prepare to take the AP Exam given in May. Students may earn college credit if they earn a passing score on the AP Exam. A or B grade in Chemistry recommended.

Prerequisites: Chemistry

Semesters: 2 **Credits:** 2

Course Code: 1st Semester - 2083, 2nd Semester - 2084

Grade Levels: 11,12

AP Chemistry

Advanced Placement Chemistry is designed to be the equivalent of a college introductory course usually taken by chemistry majors during their first year. AP chemistry differs from a typical high school course with respect to the laboratory work done by students and the time and effort outside of class required by students. Course content will emphasize topics in inorganic chemistry, and will involve a great amount of mathematical problem-solving and explanation of chemical concepts. The College Board suggests taking Physics either before or concurrently with this course. Students enrolled in AP Chemistry will be expected to take the Advanced Placement examination given in May. Students who earn a successful score on this test may receive college credit.

Prerequisites: Two years required science coursework, Chemistry (earning a grade of A or B), and Algebra 2

Semesters: 2 **Credits:** 2

Course Code: 1st Semester - 2081, 2nd Semester - 2082 **Grade Levels:** 11,12

Health Sciences & Technology Related Coursework:

AP Psychology

Advanced Placement Psychology is designed to prepare students for the AP Psychology exam, which covers an introduction to the scientific and systematic study of behavior. Students are exposed to the psychological facts, principles, and phenomena associated with the major subfields within psychology. Students will also learn about the methodology utilized by psychologists in their practice including the research methods and the APA writing format. In this way, students will continue to develop their critical thinking as well as their reading and writing skills to help them succeed in college. The class will build on the foundations laid during the second semester of Introduction to the Social Sciences.

Prerequisites: Junior or senior standing and recommendation from one social studies teacher, 2 years of social studies.

Semesters: 2 **Credits:** 2

Course Code: 1st Semester - 2105 ,2nd Semester - 2106

Grade Level: 11-12

Foundations of Scientific Research

Foundations of Scientific Research is for students concurrently enrolled in a science course and will provide opportunities for developing literacy skills in the context of those courses and for extending learning in those course topics. By enrolling in the course, students will develop and be evaluated on skills in interpreting scientific literature and evaluating the quality of research studies in science and medicine as well as conducting their own research and experiments. Students will develop scientific vocabulary necessary for success in college level science courses. Students on a career pathway towards health and other science related fields will benefit from this course. Students will learn to "Think like a scientist!"

Prerequisites: None

Semesters: 2 **Credits:** 2

Course Code: 1st Semester—2075 , 2nd Semester - 2076

Grade Levels: 11,12

Fitness and Nutrition

Fitness and Nutrition is a course that combines fitness activities and a food lab experience. It emphasizes a healthy lifestyle and helps students attain their fitness goals. Students will be exposed to a variety of physical activities such as circuit training, weight training, and cardiovascular endurance training. Some sports units will also be included in this course. Students will understand how to make fitness part of their daily routine. Students will also learn the role of nutrition in a healthy lifestyle. Food lab experiences incorporate developing and preparing tasty, healthy food. After completing this course, students will know how to exercise without using an expensive health club and have a wellness plan for life.

NOTE: Students may take one or two semesters. Students will earn a Physical Education credit.

Prerequisites: None **Semesters:** 1 or 2 **Credits:** 1 or 2

Course Code: 1st Semester - 8073 2nd Semester - 8074

Grade Levels: 11, 12

Lab Fee: \$15.00

Strength and Conditioning

The Strength and Conditioning class offers students an opportunity to gain knowledge, skills and techniques, while developing a workout program. Topics of discussion include: anatomical adaptation, hypertrophy, maximum strength, transition phase, muscle breakdown and recovery, nutrition and muscle growth, and the proper use of nutritional supplements. Students will also be taught muscle anatomy, principles and theories of muscle hypertrophy and weight lifting, and avoiding and dealing with muscle soreness. As students participate in this course they will actively use weight lifting equipment and will be taught proper usage and safety procedures used in weight training.

Semester(s): 1 or 2 **Credits:** 1 or 2

Course Code: 1st Semester - 8071, 2nd Semester - 8072

Grade Levels: 11, 12

HUMAN & PUBLIC SERVICES

Careers in this pathway appeal to people who enjoy interacting with other people and who are interested in helping people solve their problems. They are usually flexible and adapt quickly and can make quality judgments under stressful situations.

If you're motivated by a desire to serve others and your community, human and public service careers offer opportunities to make an impact.

Human and public services are filled with professions for those with a strong desire to help improve people's lives and who have a strong desire to make life safer, easier and more fulfilling for others. Careers in this area involve providing vital services, such as public safety, social support, education, employment, utilities, courts, legislation, law enforcement, community food and housing, and emergency and other relief services.

Career Exploration in Human & Public Services are available in the following Programs of Study:

Culinary

Education & Training

Government & Public Administration

Law, Public Safety, Corrections & Security

Other



Culinary Program of Study:

Culinary 1

Enjoy food? Want to cook? Want to be healthy? This class offers the opportunity to plan, prepare serve and enjoy the food you cook. Food units of study include preparing foods such as quick breads, dairy, eggs, yeast breads, meats, cookies, fruits, and vegetables. Practicing safe, sanitary, and efficient work habits, along with working cooperatively in group situations are stressed. Emphasis will be placed on current consumer food trends, nutritional labeling, and awareness of My Plate as it relates to meal planning and meeting daily nutritional needs.

Prerequisites: None

Semesters: 1 **Credits:** 1

Course Code: 7310

Grade Levels: 9, 10, 11, 12

Lab Fee: \$15.00

Culinary 3

Are you interested in one of today's fastest growing industries? Would you like to know what goes on behind the scenes at a restaurant? Students in this class will operate and manage a restaurant. Students will have the opportunity to learn advanced food preparation techniques, develop menus, be involved in promotion and advertising, and experience other aspects of the restaurant industry. This class will help develop a better understanding of food production and food service establishments.

Prerequisites: Culinary 2

Semesters: 1 **Credits:** 1

Course Code: 7312

Grade Levels: 9, 10, 11, 12

Lab Fee: \$15.00

Culinary 2

Culinary 2 is a culinary tour of the world—an adventure into advanced food preparation skills. Expand your horizons and broaden your knowledge of other countries as you develop an appreciation of international food customs and practices. You will prepare foods and meals from various regions of the United States and other countries, such as France, China, Mexico, Italy, Germany, Ireland, etc.

Prerequisites: Culinary 1

Semesters: 1 **Credits:** 1

Course Code: 7311

Grade Levels: 9, 10, 11, 12

Lab Fee: \$15.00

Culinary Program of Study (Cont.):

Fitness and Nutrition

Fitness and Nutrition is a course that combines fitness activities and a food lab experience. It emphasizes a healthy lifestyle and helps students attain their fitness goals. Students will be exposed to a variety of physical activities such as circuit training, weight training, and cardiovascular endurance training. Some sports units will also be included in this course. Students will understand how to make fitness part of their daily routine. Students will also learn the role of nutrition in a healthy lifestyle. Food lab experiences incorporate developing and preparing tasty, healthy food. After completing this course, students will know how to exercise without using an expensive health club and have a wellness plan for life.

NOTE: Students may take one or two semesters. Students will earn a Physical Education credit.

Prerequisites: None **Semesters:** 1 or 2 **Credits:** 1 or 2

Course Code: 1st Semester - 8073 2nd Semester - 8074

Grade Levels: 11, 12

Lab Fee: \$15.00

Senior Foods

Seniors, this course is designed especially for YOU! It won't be long until you are on your own. In this class you will have the opportunity to learn survival skills regarding food preparation and nutrition. You will plan and prepare 30 minute meals, delicious dorm foods, meals for two, low cost meals, and compete in a Restaurant Battle. Learn to make wise decisions while eating out as well as adult world etiquette. Food, Fun, & Friends!

Prerequisites: None **Semesters:** 1 **Credits:** 1

Course Code: 7314

Grade Levels: 12

Lab Fee: \$15.00

Education & Training Program of Study:

Child Development & Parenting (PUPS)

What's it like to be a parent? This course gives you the opportunity to find out! Two days a week students will work with preschool age children to discover the roles, responsibilities, and the impact of parenting. Through lab experience and group discussions students will focus on the growth and development levels of an individual ranging from conception through adolescence, teen parenting, and family planning. Proper care of children, safety, health, play, toy selection, discipline, and child abuse are additional topics included.

Prerequisites: None

Semesters: 2 **Credits:** 2

Course Code: 1st Semester - 7507, 2nd Semester - 7508

Grade Levels: 9, 10, 11, 12

Early Childhood 1

What better way to learn about preschool children than to *help manage the Fenton Preschool*? Students will gain experience planning curriculum and teaching 15 preschool children throughout the year. This real-life opportunity will help students gain knowledge of children's motor skills, cognitive development, and social-emotional growth. Students are given the opportunity to analyze their own job qualifications and explore child-care related career options. A trip to the Kohl Children's Museum is one of the highlights of this class.

NOTE: Three (3) credit hours through the College of DuPage will be available.

Prerequisites: Parenting (PUPS)

Semesters: 2 **Credits:** 2

Course Code: 1st Semester - 7503 2nd Semester - 7504

Grade Levels: 10, 11, 12

Early Childhood 2

If you enjoyed Preschool and wish to gain more valuable experience working with children, this course is for you. Students who take this course will take a leadership position teaching in Fenton's Preschool and will also have the opportunity to work with elementary school children. Students will become familiar with a variety of teaching methods and materials, early childhood learning theories, and have an opportunity to further develop their portfolio.

Prerequisite: Preschool 1 and approval of the instructor **Semesters:** 2 **Credits:** 2

Course Code: 1st Semester - 7505 2nd Semester - 7506

Grade Levels: 11, 12

Psychology and Contemporary Living

This course presents a fresh look at life in today's world. It is the study of the foundations of the adult personality, which includes developing communication and problem solving skills, dating, mate selection, future lifestyles, marriage, parenthood, retirement, aging, death, and family crisis. Students may opt to participate in the Baby Think It Over program, an infant simulation project.

NOTE: It is recommended that the student consider taking Independent Living opposite Psychology and Contemporary Living for a full year sequence.

Prerequisite: None

Semesters: 1 **Credits:** 1 **Course Code:** 7375

Grade Levels: 11, 12

Government & Law Program of Study:

AP United States Government and Politics

AP United States Government and Politics introduces students to key political ideas, institutions, policies, interactions, roles, and behaviors that characterize the political culture of the United States. The course examines politically significant concepts and themes, through which students learn to apply disciplinary reasoning, assess causes and consequences of political events, and interpret data to develop evidence-based arguments.

Prerequisites: 2 Years of Social Studies **Semesters:** 2 **Credits:** 2

Course Code: 1st Semester - 5528 ,2nd Semester - 5529

Grade Level: 11-12

Military History

Military History is a one semester Social Studies elective focused on the central theme of armed conflict. Students will explore the development of warfare on land, sea and air, weapons and technology, strategy and defense, discipline and intelligence, mercenaries and standing armies, guerrilla assault and nuclear arsenals. Understanding the importance and the role of the military in the formation of individual states and societies will be addressed. Emphasis will be placed on the socio-economic impact of military progress and the moral questions raised by armed conflict.

Prerequisites: None

Semesters: 1 **Credits:** 1

Course Code: 5527

Grade Level: 11-12

Criminal Justice

Criminal Justice focuses on the legal system of the United States from the mid-Twentieth Century to the present. This course is designed to meet the needs of students wishing to be exposed to the criminal justice system, wanting to explore a possible career in criminal justice, and who are interested in taking an in depth look at the American legal system. The course will acquaint students with legal terms, trial procedures and laws that relate to young adults. Major subject areas include the police, criminal cases, correction and juvenile justice. Landmark court cases will be used to establish precedent and encourage discussion. Written work and discussion participation will play a significant role in the course.

Prerequisites: None

Semesters: 1 **Credits:** 1

Course Code: 5526

Grade Level: 11-12

Business Law

Business Law involves those consumer laws which affect all who live in a business-oriented society. Cases, skits, and illustrations are used to help students understand laws relating to contracts, employment, marriage, apartment leases, buying a home, family insurance, buying and insuring a car, sales, warranties, credit buying, borrowing money and more. Personal experiences of students and current events are also used in class discussions. Be prepared to participate in a mock trial where you will have the opportunity to apply what you have learned.

Prerequisites: None

Semesters: 1 **Credits:** 1 **Course Code:** 7095

Grade Levels: 10, 11, 12

Other Related Human and Public Services Courses:

AP Psychology

Advanced Placement Psychology is designed to prepare students for the AP Psychology exam, which covers an introduction to the scientific and systematic study of behavior. Students are exposed to the psychological facts, principles, and phenomena associated with the major subfields within psychology. Students will also learn about the methodology utilized by psychologists in their practice including the research methods and the APA writing format. In this way, students will continue to develop their critical thinking as well as their reading and writing skills to help them succeed in college. The class will build on the foundations laid during the second semester of Introduction to the Social Sciences.

Prerequisites: Junior or senior standing and recommendation from one social studies teacher, 2 years of social studies.

Semesters: 2 Credits: 2

Course Code: 1st Semester - 2105 ,2nd Semester - 2106

Grade Level: 11-12

MANUFACTURING, ENGINEERING, TECHNOLOGY & TRADES (METT)

People in construction, engineering, manufacturing and technology trades make the world go around. These jobs build the infrastructure and the tools to build the infrastructure that keep society working.

Careers in this field relate to the design and development of new products, production systems, processes, operations, services, quality control, continuous improvement, lean principles, manufacturing competitiveness, and sustainability. Preparing to work in this field require you to know about technologies that support tooling, assembly and automation.

Employment of engineers is expected to grow about as fast as the average for all occupations during the next decade. Growth will vary by specialty. In addition, to some growth in employment opportunities for professional workers in the industry, there will be many job openings arising from replacement needs, especially for aerospace engineers.

Career Exploration in
METT are available in
the following Programs
of Study:

Architecture and
Construction

Automotive

Engineering/
Manufacturing

Graphics Production



General METT Courses:

Introduction to Technology

Introduction to Technology builds understandings of technology in the Applied Technology area by incorporating 21st century skills such as creativity, problem solving, communication and collaboration. This course offers introductory and hands-on experiences which culminate at the end of the course with a project incorporating learning in the areas of Woods, Graphics, Automotives, Computer Repair, Engineering and others. Safety is of the utmost importance, and is trained and emphasized in all areas.

Prerequisites: None

Semester (s): 1 or 2 (separately), 1 & 2 (Full year)

Credit (s): 1 or 2

Course Code: 1st Semester - 7701, 2nd Semester - 7702

Grade Levels: 9, 10

Lab Assistant

The student will assist the teacher in the lab by helping other students learn the proper use of equipment. A lab assistant will also learn how to maintain all machines and hand tools in the lab. He/she may choose to work in the area of Metals, Woods, Power, Electricity, Drafting, or Graphics. Through assisting other students, lab assistants will enhance their interpersonal mentoring skills. A student seeking Credits as a Lab Assistant must submit a completed lab contract and have approval from the chairperson of the Applied Technology Department.

Prerequisite: All courses offered by the department in the area in which the student will assist.
Department Chair Approval

Semester(s): 1 or 2 **Credit(s):** 1 or 2

Course Code: See your counselor for Course Code **Level(s):** 11, 12

Architecture & Construction Program of Study:

Architectural Drafting 1

Architectural Drafting provides the student with an introduction to the diverse and complex field of architecture through building materials, construction principles, building terminology, and pictorial representation. Using the computer aided design drafting (AutoCAD) system and the trackmasters, the student will explore the world of building construction from the footing to the roof of a house. One point perspective, two-point perspective, elevational views, and the design of a residential floor plan will climax the two-semester experience.

Prerequisites: Technical Drafting (Full Year)

Semesters: 2 **Credits:** 2

Course Code: 1st Semester - 7741, 2nd Semester - 7742

Grade Levels: 10, 11, 12

Architectural Drafting 2

The designing and drawing of the plans for a residence is the goal of the architectural student. He/she takes the role of a Junior Architect and with the help of a client creates a vacation home or permanent residence culminating in the completion of the working drawings for that structure. Through the means of the computer aided design drafting (AutoCAD 2000) system and the trackmasters, the Junior Architect will complete the floor plan, foundation plan, electrical plan, elevational views, needed details sections, a two-point perspective, and the plot plan for their design.

Prerequisites: Technical Drafting (Full Year), Architectural Drafting (Full Year)

Semesters: 2 **Credits:** 2

Course Code: 1st Semester - 7751, 2nd Semester - 7752

Grade Levels: 10, 11, 12

Technical Drafting

Technical Drafting is the universal language of industry and the consumer. Through the use of Computer Aided Drafting (AutoCAD) systems and trackmaster drafting machines, the students will explore the topics of sketching, blueprint reading, orthographic projection, sectional views, auxiliary views, pictorial representation, and architecture.

Prerequisites: None

Semester (s): 1 or 2 (separately), 1 & 2 (Full year)

Credit (s): 1 or 2

Course Code: 1st Semester - 7711, 2nd Semester - 7712

Grade Levels: 9, 10, 11, 12

Architecture & Construction Course Descriptions:

Electricity

This introductory course covers all the basics of electricity and the beginnings of electronics. No prior experience is required. Students will do mostly lab-based work with both DC and AC electricity, applying science and physics in a practical setting. Students will also use real construction techniques by building a basic wall frame, running conduit and boxes, attaching lights, then wiring it all up to a breaker panel. Students also learn to use digital multimeters and other diagnostic equipment. Finally, the course wraps up with soldering and analog electronics; students will put together a simple kit with flashing LEDs and microswitches.

Prerequisites: None

Semester (s): 1 **Credit (s):** 1

Course Code: 1st Semester - 7785

Grade Level (s): 10,11, 12

Woods

Woodworking is a very useful skill for either future employment or as a hobby. Students will learn how to choose the right materials, tools, and procedures for a job. Emphasis is placed on safety, design, planning, and organization. Career awareness in fields like drafting, design, furniture production, construction, carpentry, and cabinet making will also be covered. By the end of course, students will have built and finished a fully functional coffee table or plant stand.

Prerequisite: None

Semester(s): 1 **Credit(s):** 1

Course Code: 1st Semester - 9902

Grade Level(s): 9,10, 11, 12

Lab Fee: Students will be expected to pay for the materials.

Advanced Woods

Advanced Woods is a continuation of Woods and for the individual who has an interest in woodworking. This class is for the student who wants to refine skills in wood product fabrication. Students will learn the newest technology used in these occupations. Consumer knowledge, home maintenance, career awareness, and technologies related to the wood product fabrication industries will be explored.

Prerequisite: Woods

Semester (s): 1 or 2 **Credit (s):** 1 or 2

Course Code: 1st Semester - 9903 2nd Semester - 9904

Grade Level (s): 11, 12

Lab Fee: Students will be expected to pay for the materials..

Automotive Program of Study:

Small Engines

Small Engines is a gateway course into the Automotives pathway where students take a "hands on" approach to learning four-stroke engines. In this course, students work in a collaborative setting to learn about engine assembly, torque, troubleshooting, and precision measurement. Students work on horizontal shaft engines, mowers, snowblowers, trimmers, and almost anything they can dream of with a small gasoline engine. These skills lead to hands-on applications where students apply learned skills to diagnostics, tune-ups, and repairs on all makes and models.

Prerequisites: None

Semester (s): 1 **Credit (s):** 1

Course Code: 1st Semester - 7844

Grade Level (s): 9,10,11,12

Automotive Technology 1

Students will work on automobiles. Students will learn how to add new sound systems, new brakes, do body work, and perform general repair to cars. Students will do general auto maintenance, upgrades and repairs to automobiles including their own cars. Consumer tips and careers are also covered in this class.

Prerequisites: Small Engines

Semester (s): 2 **Credit (s):** 2

Course Code: 1st Semester - 7851, 2nd Semester -

7852 **Grade Level (s):** 11, 12

Automotive Technology 2

The Automotive Technology program is designed to provide students with the necessary skills, knowledge, and abilities for entry-level employment in the automotive service industry. Autos 2 will build upon the knowledge gained in Autos 1, with an expanded focus on diagnostics and troubleshooting. Autos 2 will provide the student with skills in engine tune-up, brake system service, suspension service, lubrication service, and parts management. In addition, students will also learn job search skills, automotive business ethics, appropriate communication skills for the marketplace, and job retention skills – including attendance, punctuality, and proper work attire.

Prerequisites: Auto Technology 1

Semester (s): 2 **Credit (s):** 2

Course Code: 1st Semester - 7863, 2nd Semester - 7864

Grade Level (s): 11, 12



Engineering/Manufacturing Program of Study:

Introduction to Engineering Design PLTW (Project Lead the Way Course)

Introduction to Engineering Design encourages students to be creative and apply decision-making and problem solving skills to specific design problems, using powerful computer hardware and software (Inventor) to develop 3-D models or solid renderings. Using a CAD system, students explore the design process through creating, analyzing, rendering, and producing a model with a 3D printer. Recommended that students have successfully completed or are concurrently enrolled in an Algebra course.

Prerequisites: None

Semester (s): 2 **Credit (s):** 2

Course Code: 1st Semester - 7707, 2nd Semester - 7708

Grade Level (s): 9, 10, 11, 12

Technical Drafting

Technical Drafting is the universal language of industry and the consumer. Through the use of Computer Aided Drafting (AutoCAD) systems and tracmaster drafting machines, the students will explore the topics of sketching, blueprint reading, orthographic projection, sectional views, auxiliary views, pictorial representation, and architecture.

Prerequisites: None

Semester (s): 1 or 2 (separately), 1 & 2 (Full year)

Credit (s): 1 or 2

Course Code: 1st Semester - 7711, 2nd Semester - 7712

Grade Levels: 9, 10, 11, 12

Principles of Engineering Design PLTW (Project Lead the Way)

The second course in the Project Lead the Way sequence, Principles of Engineering Design is a survey course that exposes students to major concepts they will encounter in a postsecondary engineering course of study. Topics include mechanisms, energy, statics, materials, and kinematics. They develop problem-solving skills and apply their knowledge of research and design to create solutions to various challenges, document their work and communicate solutions.

Prerequisites: None

Semester (s): 2 **Credit (s):** 2

Course Code: 1st Semester - 7709, 2nd Semester - 7710

Grade Level (s): 11, 12

Metal and Manufacturing Technology 1

Metal and Manufacturing Technology will cover the skills necessary for students interested in design, engineering, and manufacturing. Students will be instructed on the proper and safe use of the drill press, lathe and other metal machines. They will also learn about heat treating, sheet metal tools, spot welding, and other hand tools. Students will learn about the impact of computer assisted design (CAD) and computer assisted manufacturing (CAM) on today's manufacturing.

Prerequisites: None

Semester (s): 1 **Credit (s):** 1

Course Code: 1st Semester - 7805

Grade Level (s): 10, 11, 12

Graphic Production Program of Study:

Graphics 1

In Graphics 1 students will engage with current methods, techniques, and technology employed in the field of advertising and production to develop a student portfolio using professional software applications, and operate professional printing equipment including a laser engraver and a vinyl cutter. Students will use Adobe Photoshop and Microsoft Publisher to design and print items such as t-shirts, drawstring bags, glass and mirrors, buttons, notepads, posters, brochures and decals. Graphics 1 emulates a professional setting and offers exposure to graphic design related careers.

Lab Fee: \$7.00 plus materials as needed

Prerequisites: None

Semester (s): 1 **Credit (s):** 1

Course Code: 1st Semester - 7765

Grade Level (s): 10,11,12

Lab Fee: \$15.00 plus materials as needed

Graphic Production

This is a production class designed to give students practical hands-on experience in the printing industry. Students in this course will be involved in all aspects of the graphic communication industry, such as Desktop Publishing, management, sales, billing, etc.

Prerequisites: Graphics 1, Graphics 2, and consent of instructor

Semester (s): 2 **Credit (s):** 2

Course Code: 1st Semester - 7781, 2nd Semester - 7782

Grade Levels: 11, 12

Graphics 2

In Graphics 2 students will expand upon the topics of graphic design and print production creating more complex designs and products including a mass production project, multiple color decals, laser engraved items of their choice, display and advertisement production, and other print production projects of their own design. Students will utilize design and layout techniques in Adobe Photoshop and Microsoft Publisher. This course emulates a professional setting and offers exposure to graphic design related careers.

Prerequisites: Graphics 1 **Semester (s):** 1 or 2 (separately), 1 & 2 (Full year) **Credit (s):** 1 or 2

Course Code: 1st Semester - 7771, 2nd Semester - 7772

Grade Levels: 11, 12

Lab Fee: \$15.00 per semester plus materials as needed

Web Design

In modern times, an understanding of the internet and the information it carries is no longer optional. In this class students will not only create web sites about your personal interests, but also make pages for teachers, student clubs, and businesses. We will cover basic HTML, CSS, Flash, Dreamweaver, JavaScript, and more. No prior coding knowledge is required. If you know how to browse the internet, you're ready to take this class. More skilled students can take on "freelance" web design challenges to further improve their talents.

Prerequisites: None

Semester (s): 1 **Credit (s):** 1

Course Code: 1st Semester - 7902

Grade Level (s): 9,10,11,12

Other METT Related Courses:

AP Physics 1

AP Physics 1 is designed to be an algebra-based introductory class equivalent to the first semester of a college physics course. The primary areas of focus for AP Physics 1 will be motion, forces, energy, momentum, waves, and an introduction into electrostatics and circuitry. Students will investigate topics through frequent inquiry based laboratory experiments. In mastering the content, students will be presented information through several additional means that may include but are not limited to lectures, research projects, and homework. The coursework will be rigorous and challenging. Those who put the time and effort into learning the materials will leave the classroom well prepared to succeed in their future physics endeavors. Students will have the option of taking the AP Physics 1 exam in May that may allow them to earn college credit.

Prerequisites: Chemistry, Pre-Calculus or concurrently enrolled in Pre-Calculus, a C or higher in Algebra 2 or teacher recommendation.

Semesters: 2 **Credits:** 2

Course Code: 1st Semester - 2095, 2nd Semester - 2096

Grade Levels: 11,12

AP Chemistry

Advanced Placement Chemistry is designed to be the equivalent of a college introductory course usually taken by chemistry majors during their first year. AP chemistry differs from a typical high school course with respect to the laboratory work done by students and the time and effort outside of class required by students. Course content will emphasize topics in inorganic chemistry, and will involve a great amount of mathematical problem-solving and explanation of chemical concepts. The College Board suggests taking Physics either before or concurrently with this course. Students enrolled in AP Chemistry will be expected to take the Advanced Placement examination given in May. Students who earn a successful score on this test may receive college credit.

Prerequisites: Two years required science coursework, Chemistry (earning a grade of A or B), and Algebra 2

Semesters: 2 **Credits:** 2

Course Code: 1st Semester - 2081, 2nd Semester - 2082

Grade Levels: 11,12

AP Environmental Science

The AP Environmental Science course is designed to be the equivalent of a one-semester, introductory college course in environmental science. The goal of the AP Environmental Science course is to provide students with the scientific principles, concepts, and methodologies required to understand the interrelationships of the natural world, to identify and analyze environmental problems both natural and human-made, to evaluate the relative risks associated with these problems, and to examine alternative solutions for resolving or preventing them. Environmental science is interdisciplinary; it embraces a wide variety of topics from different areas of study. Students enrolled in this course will be preparing to take the AP exam in May. Students who earn a successful score on this test may receive college credit in one of the many participating colleges throughout the country.

Prerequisites: A grade of B or better in a previous full year math course and successful completion of 2 science courses or with administrative approval or teacher recommendation.

Semesters: 2 **Credits:** 2

Course Code: 1st Semester - 2085, 2nd Semester - 2086

Grade Levels: 11,12



TECHNOLOGY CENTER OF DUPAGE (TCD)

The Technology Center of DuPage (T.C.D.) is a joint effort of Fenton High School, District #100 and seven other neighboring high school districts. The center is designed to offer elective career education programs not available at Fenton High School. The primary purpose of the T.C.D. is to offer training which can provide students certified employability in a broad range of careers. Enrollment at the T.C.D. is available to students during their junior and senior years. Success at the T.C.D. is directly related to regular attendance. As a result, sophomores wishing to enroll in the T.C.D. must have earned 16 credits at Fenton by the time of registration. Juniors wishing to enroll at the T.C.D. must have 26 credits at the time of registration and a good attendance record. In addition, a student's attendance and disciplinary records will be carefully reviewed in order to determine acceptance into TCD. In addition to the credit requirement, the student who desires to enroll in a particular course at the T.C.D. should have taken certain prerequisites at Fenton High School in preparation for the chosen T.C.D. course. Listed on the following pages are the courses offered at the T.C.D. as well as the prerequisites for these courses.

Program of Study include:

- Auto Body Repair and -
Refinishing
- Automotive Technology
- Computer Information -
Systems & Game Design
- Computer Science -
Principles (CSP)
- Construction Trades
- Cosmetology
- Criminal Justice
- Early Childhood Educa-
tion and Care
- Electronics Technology
- Emergency Medical Techni-
cian
- Fire Science
- Healthcare Foundations
- Heating, Ventilation, AC &
Refrigeration
- Medical Terminology and
Healthcare Careers
- Multimedia and Television
Production
- Nursing Assistant -
Training Program
- Precision Engineering &
Design Technology
- Professional cooking, Bak-
ing & Service (ProCBS)
- PLTW Pathway to Engi-
neering
- Welding Technology

INTERVENTION



ACADEMIC & SOCIAL/ EMOTIONAL INTERVENTION COURSES

Fenton Academic curriculum through Technology (FACT)

The Fenton Academic Curriculum through Technology (FACT) program is an alternative educational placement. Designed for students to recover credits of failed classes and/or completing credits needed to achieve an on-time graduation, placement in the program is determined through an administrative meeting, or through the recommendation of the Bison Intervention Team. The FACT class meets for a shortened school day (see attached calendar for hours) in a computer lab where instruction is delivered through interactive online courses, and facilitated by a classroom teacher. Student placement in the program is for one full semester at a time, and exit from the program to the comprehensive day school program at FHS is dependent on sustained success in the areas of academic progress, attendance, and appropriate behavior. A meeting is held at the end of the semester to determine next steps for educational placement.

Bison Orange

Bison Orange is an intervention designed to improve academic performance. Bison Orange is an alternative to a regular study hall and occurs within the regular school day. Students are selected for the intervention based on credit status or recommendation.

Prerequisite: None

Semester(s): 1 **Credits:** 0

Reading/Language Resource

The resource program is designed to help students with organizational skills, as well as to assist with regular education curriculum. Students are responsible for logging their daily assignments and securing teachers signatures. Resource allows for students to receive individual assistance and to meet the needs listed on the student's Individual Education Plan.

Prerequisites: Placement determined by IEP Team

Semesters: 2 **Credits:** 2

Course Code: 00361 **Grade Levels:** 9, 10, 11, 12

Personal Power

This course is designed to help students identify their individual talents, create the internal motivation and drive to expand those talents, assume responsibility for themselves, interact responsibly with others and claim their self-esteem. Students will develop the ability to set specific goals and the commitment and determination to stick with them.

Prerequisites: Counselor approval

Semester(s): 1 **Credits:** 1

Course Code: 4003 **Grade Levels:** 9-12 (Seniors may enroll 1st semester)



ENGLISH AS A SECOND LANGUAGE (ESL) SERVICES

Requirements & Recommendations

Students who are English Language Learners as assessed by the state-mandated ACCESS test are placed in ESL / Bilingual courses by the ESL Coordinator based on their English competencies. Accordingly, students are exited from the ESL program after achieving an English proficiency score on the ACCESS that demonstrates high school levels of speaking, listening, reading, and writing. Intensive work on the four language domains is provided in all ESL courses.

For Further Information regarding services for English Language Learners, please contact:

Michelle Rodriguez - rodriguez@fenton100.org

Kate Ward - ward@fenton100.org



SPECIAL EDUCATION

Fenton High School Community District #100 provides a full continuum of services and placements for students found eligible to receive special education services until graduation or the age of 22.

We are committed to providing a supportive environment in which our students with diverse learning needs can develop academic, social, emotional, vocational, and life skills. The department offers a full continuum of services and placements from support in the general education environment to specialized instructional courses, and/or related services. The primary focus of the Special Education Department is to not only grow students' independent learning skills, but also to prepare students for their future goals in the areas of post-secondary education, employment, and independent living.

Fenton High School Community District #100 maintains specific procedures for referral, placement, and programming. Support and services for each student receiving services is provided as outlined within the student's Individualized Education Plan (IEP). Services and placement are determined by an IEP team through a multi-disciplinary conference based on the student's individual needs. Educational services and placement is provided along a continuum within the Least Restrictive Environment (LRE).

Placements at Fenton may include:

- General education with support (Co-Taught, Teacher Assistants, Supplementary Aids)
- Specialized instruction
- Learning Achievement Program (LAP)
- Life Skills and
- Related services such as speech, social work, occupational therapy, and itinerant services (vision and hearing).

For more information regarding Special Education Services, please contact:

Nancy Coleman -
Coleman@fenton100.org



Fenton Community High School District 100

1000 West Green Street

Bensenville, Illinois 60106