

FOWLER HIGH SCHOOL

Course Registration Guide

2023-2024



In compliance with Title VI of the Civil Rights Act of 1964, Title IX of the Education Amendments of 1972, Section 504 of the Rehabilitation Act of 1973, the Age Discrimination Act of 1975, and the Americans Disability of 1990, is the policy of Fowler Public School District that no person shall, on the basis of race, color, national origin, sex, disability, age, religion, height, weight, marital or status, military status, ancestry, genetic information or any other legally protected category, be excluded from participation in, be denied the benefits of, or be subjected to discrimination during any program or activity, or in employment.

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GRADUATION REQUIREMENTS

1. A total of 24 credits will be required to graduate. The following are specific requirements within the 24 total required:

Requirements for all Classes:

- 4 units English Language Arts (English Language Arts 9, 10, 11, 12)
 - 4 units Mathematics (Algebra I, Algebra II, Geometry and another math course)
1 unit of math must be taken during the senior year
 - 3 units Science (Physical Science; Biology; Physics or Chemistry or Anatomy/Physiology)
 - 1 unit Physical Education/Health
 - 1.5 units Basic Core classes (Personal Finance, Computers 1, and another computer education course)
 - 1 unit US History Geography
 - .5 unit Civics
 - .5 unit Economics
 - 1 unit World Studies Geography
 - 2 units World Language
 - 1 unit Visual, Performing, or Applied Arts, Vocational Education
- Online Learning Experience (incorporated into each core class)
Participation in the Michigan Merit Exam
2. All required subjects or their substitutes must be passed. Seniors are required to pass five units to graduate.
 3. Each semester grade is final. (Example: A "C" for semester 2 will not compensate for an "E" in a given course for semester 1.) In high school only final grades for each semester are recorded on permanent records. Students receive ½ credit for each class passed during a semester (exceptions are Voc Tech, Career Connections, dual enrollment and work based learning).

CLASS STATUS

Senior Status: A student who has not earned a minimum of 17 credits by September 1 or 20-1/2 by February 1 of his/her fourth year in high school shall not be considered a senior for the purposes of any graduation activities or senior trip. This means that only those students who have earned the minimum toward completing the necessary courses to earn 24 credits by May 1 will be allowed to march with their class at Graduation, Baccalaureate, Honors Assembly, and go with their class on the senior trip. Students who are not meeting these standards may order announcements, commencement wear, and pay for their class trip at the risk of not participating in the ceremony or class trip without refunds.

Junior Status: A student who has not earned 10 credits by September 1 shall not be considered a Junior and therefore, is not granted the privilege of participating in Junior Class activities.

Sophomore Status: A student who has not earned a minimum of 3 credits by September 1 shall not be considered a Sophomore and therefore, is not granted the privilege of participating in Sophomore Class activities. A student will only be allowed to earn two (2) outside credits to make-up for deficiencies or failures in order to meet the minimum graduation requirements, unless approved by exception from the administration and Board of Education

BASIC CORE PROGRAM

FRESHMAN BASIC CORE

COMPUTERS 1

**Required – 9
Semester Course**

This freshman basic core computer course consists of developing keyboarding and basic technological skills in the fundamental areas of computer processing. The students will gain knowledge of the history, social issues, hardware, software and Internet components associated within the technological world. An emphasis will be placed on developing skills using productivity software to create documents, spreadsheets, presentations, and databases.

PERSONAL FINANCE

**Required – 9
Semester Course**

This class is designed to help students learn to manage their resources and to make sound financial decisions. This course will provide students with the necessary consumer information to enable them to live productive lives as consumers.

PHYSICAL EDUCATION/HEALTH

**Required - 9
Semester Course**

The basic physical education program is designed to provide students with physical activities to develop the body and the understanding of how the body works through health. It will provide instruction in skills needed for wholesome recreational activities. The program will include lifetime, competitive, individual, team, and classroom activities. These activities include: Soccer (indoor and outdoor), volleyball, football, track, basketball, bowling, softball, ping pong, physical fitness, badminton, cardiovascular activities, and health. Topics covered in Health include disease prevention and control, personal health practices, nutrition and foods, family health, growth and development, emotional and mental health, substance use and abuse, consumer health and community health. This is a good basic class that can help a student now and in making life a little better in adulthood.

ADDITIONAL BASIC CORE

COMPUTER EDUCATION COURSE

**Required - 10, 11 or 12
Semester Course**

Students can fulfill this graduation requirement by enrolling in and passing a minimum of 1 semester of any other computer education course offered at Fowler High School during any grade year. Current courses that will fulfill this requirement consist of Desktop Publishing, Web Publishing, Digital Imaging, Introduction to Coding, Robotics, CAD, and Advanced Media Arts.

ART EDUCATION

ART 1

Elective - 9, 10, 11, 12

Prerequisite – none

Semester or Full Year Course

The introductory high school art class is designed to acquaint the students with the basics of art. Art projects are selected which will allow the student to develop and build a basic understanding of the fundamentals of art. Design principles, color, basic drawing, and composition will be covered. Various two-dimensional materials will be explored such as pencil, charcoal, chalk, pen and ink, oil pastels, and paint. Assessment of a student's progress is made daily through communication. Students will complete a project evaluation/critique for each assignment.

ART 2 / ART 3 / ART 4

Elective - 10, 11, 12

Prerequisite - Art 1 (Art 2 or 3)

Semester or Full Year Course

This course is for students with a serious interest in advancing art skills. More in-depth study will need to be shown in drawing and design problem solving. Specific requirements are set with time for students to pursue various individual interests throughout the year. Community service projects are required when available. Assessment of a student's progress is made daily through communication. Students will complete a project evaluation/critique for each assignment. Each student will "show" works completed during the course of the year.

PHOTOGRAPHY

Elective - 9, 10, 11, 12

Prerequisite - none

Semester Course

This course is a semester experience in photography. The course is tailored to introduce students to photography concepts. Students will be provided with the skills and tools necessary to develop professional photographs. Students will implement the principles and elements of design, learn to control depth of field, light and speed through aperture stop and shutter speed. Students will be introduced to historical film photography, and the process of film and photo development.

BUSINESS EDUCATION

PERSONAL FINANCE

Required – Grade 9

Prerequisite-none

Semester Course

This class is designed to help students learn to manage their resources and to make sound financial decisions. This course will provide students with the necessary consumer information to enable them to live productive lives as consumers.

INTRODUCTION TO BUSINESS

(NOT available 2023-24)

Elective – Grades 10,11,12

Prerequisite – none

Semester Course

This course is offered on an alternate year basis. This course is designed for students interested in exploring different areas of the business world. We will study basic marketing, economics, business management, finance, and entrepreneurship. This is a one semester class.

BUSINESS COMMUNICATIONS

Elective-Grades 10, 11, 12

Prerequisite-none

Semester Course

This course is offered on an alternate year basis. This class will explore the many areas of business communication. Students will learn the basics of writing and speaking in the business world as well as resume, cover letter, and interview skills.

ACCOUNTING 1

Elective - Grades 10, 11, 12

Prerequisite – (Prefer Intro. to Business) Full Year Course

This is an introduction to basic accounting vocabulary, principles, forms, practices, the completion of the accounting cycle, and payroll procedures. Manual and computerized (Century 21, MindTap Accounting Software) accounting problems are used to simulate real world work. Juniors and Seniors who successfully pass the course with a “B” or higher can earn articulated credit at Ferris State University. This course meets the requirement as a math related course for Seniors.

ACCOUNTING 2

Elective - Grades 11, 12

Prerequisite - Accounting 1 (grade of A or B)

Full Year Course

This advanced course begins with a review of the basic principles and procedures studied in Accounting 1. Corporate accounting, financial analysis, budgeting, break-even, and cost accounting are included. Manual and computerized (Century 21, MindTap Accounting Software) accounting problems simulate real world accounting work. This Course meets the requirement for senior year math.

COMPUTER EDUCATION

COMPUTERS 1

Required – 9

Semester Course

This freshman basic core computer course consists of developing keyboarding and basic technological skills in the fundamental areas of computer processing. The students will gain knowledge of the history, social issues, hardware, software and Internet components associated within the technological world. An emphasis will be placed on developing skills using productivity software to create documents, spreadsheets, presentations, and databases.

DESKTOP PUBLISHING

Elective - 9, 10, 11, 12

Prerequisite - Computers 1

Semester Course

This course is a semester experience in desktop publishing. The course is tailored to expand on the office suite skills learned in Computers 1 and introduce students to publishing concepts. Students will be provided with the skills and tools necessary to develop professional marketing publications including items such as logo development, business cards, advertising layouts, storyboards, posters, and brochures. Students will be introduced to graphic elements of advertising and marketing as they learn to promote their business. *Note: This course may be offered in a primarily online or blended course design format which may include class meetings and assignments outside of the regular school day.*

DIGITAL IMAGING

Elective – 9, 10, 11, 12
Prerequisite – Computers 1
Semester Course

This course will introduce students to the concepts of digital imaging, basic photography, image editing and image manipulation. Students will learn how digital images are acquired, manipulated and output. Students will learn: How to scan and screen capture images; how to take professional-looking pictures with a smartphone or point and shoot camera; how to edit, manipulate, colorize images; and how to prepare photos for professional printing, slideshows and videos or multimedia production. *Note: This course may be offered in a primarily online or blended course design format which may include class meetings and assignments outside of the regular school day.*

WEB PUBLISHING **(NOT available 2023-24)**

Elective—9, 10, 11, 12
Prerequisite-Computers 1
Semester Course

This course is offered on an alternate year basis. This semester-long course is designed to introduce students to 21st century web publishing concepts. Students will learn the basic elements of web design and development as they learn to create their own web pages. Students will also learn about the latest Content Management Systems (CMS), web-hosting options and template-drive web page construction. Students will create media-rich content for use on websites. Concurrently, students will be introduced to the concepts of blogging as they design, build and maintain their own blogs on a theme of their choosing. *Note: This course may be offered in a primarily online or blended course design format which may include class meetings and assignments outside of the regular school day.*

INTRODUCTION TO COMPUTER CODING

Elective – 9, 10, 11, 12
Prerequisite – Computers 1
Semester Course

This course is offered on an alternate year basis. The ability to code computer programs is an in-demand skill in today's society. Research has shown that when students learn to code, they learn important strategies for solving problems, designing projects, and communicating ideas. This fully online computer science course explores the fundamentals of programming. It is a project-based course that introduces students to contemporary programming languages including Python, C++, Javascript, and Swift. Projects include creating simple code blocks, game design, and smartphone app development. *Note: This course may be offered in a primarily online or blended course design format which may include class meetings and assignments outside of the regular school day.*

INDUSTRIAL AND TECHNOLOGY EDUCATION

INDUSTRIAL TECHNOLOGY 1

Elective - 9, 10, 11, 12
Prerequisite - none
Full Year Course

1st term: Students will learn basic sketching, lettering, 1 view drawing, 3 view drawing, and isometric drawings. 2nd, 3rd, 4th terms: The students will learn safety procedures for all tools and how to use them properly. They will learn how to calculate the price of lumber, how to draw plans, and how to complete a plan of procedure for each project. Students will learn basic furniture construction such as joints, fasteners, and types of lumber, sanding and finishing.

INDUSTRIAL TECHNOLOGY 2

Elective - 10, 11, 12

Prerequisite - I. T. 1

Semester or Full Year Course

Students will learn safety procedures for all tools and machines. Students will study construction, aerodynamics, structures, and other technological processes by making projects such as a bridge out of pine sticks and Co2 cars. Computers will be used for a plan design. The students must make that project in order to receive credit.

INDUSTRIAL TECHNOLOGY 3 & 4

Elective – 11, 12

Prerequisite– I. T. 1 & 2

Semester or Full Year Course

Students will learn safety procedures for all tools and machines. Students will use prior knowledge of machines in order to build projects of their own choosing. This is an independent class. Projects will include airbrushing, metalworking, woodworking, construction, electronics, and assignments on electricity. Each student must use Auto-Sketch to design at least one project. Students will be graded on the complexity of projects and how hard they work in class.

DRAFTING 1

Elective –10, 11, 12

Prerequisite-Industrial Arts 1

Semester or Full Year Course

Students will learn how to sketch, draft, and use Auto-Sketch on the computers. The following assignments will be given: A sketch, 1 view drawings, 3 view drawings, isometric drawings, mechanical drawings, and sectional drawings. Auto-Sketch will also be used to do all of the above. Students will also have assignments that include blueprint reading, and developing a house from the floor plans of the elevations. Students will learn different types of pencils, lines, and how to dimension and letter properly.

COMPUTER AIDED DRAFTING (CAD)

Elective – 11, 12

Prerequisite- A “B” in Drafting 1

Semester or Full Year Course

Students will expand on their knowledge and drafting skills by doing the following: sketching, lettering, mechanical drawings, working drawings, isometrics, 5 view drawings, and a complex drawing of their own choosing. Students will use AutoSketch. Students must successfully complete this course to be eligible for the Career Connections CAD course in future years.

ENGLISH LANGUAGE ARTS

ENGLISH LANGUAGE ARTS - GRADE 9

Required - Grade 9

Prerequisite - none

Full Year Course

Students will learn basic English skills. Among these will be writing, grammar & punctuation, speech and oral report organization, note taking, reading and interpreting skills, research skills, logical reasoning and internet safety.

ENGLISH LANGUAGE ARTS - GRADE 10

Required - Grade 10

Prerequisite - ELA 9

Full Year Course

Students will continue acquiring basic English skills. Among these are: essay writing, grammar and usage, punctuation, public speaking, researching, documenting, logic, literary history and reading.

ENGLISH LANGUAGE ARTS - GRADE 11

Required - Grade 11

Prerequisite - ELA 9, 10

Full Year Course

The 11th grade Language Arts Program combines the continuation of basic reading, writing, and speaking skills with more advanced literary analysis and writing methods. The program will concentrate on analysis of theme, character, and writing style. Development of MLA research skills and complete research papers will also be emphasized as well as a survey of American Literature from its earliest forms to the present.

ENGLISH LANGUAGE ARTS - GRADE 12

Required - Grade 12

Prerequisite - ELA 11

Full Year Course

English 12 is intended to prepare students planning to attend a college or university after high school, as well as those moving into training programs or the workforce. This class continues to develop the student's reading and writing skills using contemporary novels and topics. In addition to MLA documentation, APA documentation will be taught.

COMM 120 - DYNAMICS OF COMMUNICATION (LCC)

Elective: 11, 12

Prerequisite - See Dual Enrollment

Semester Course (1 unit credit)

Introduction to the theory and practice of speaking and listening effectively in interpersonal, group, and public communication situations. The course utilizes readings, lectures, discussions, learning activities, and oral and written assignments to help students both understand the communication process and become more skillful interpersonal, group (team), and public communicators. A grade of 2.0 or higher fulfills the Communication Core Requirement. (LCC MTA Category - English Composition (second course) or Communications)

ENGL 121 - COMPOSITION I (LCC)

Meets English 12 Requirement: 12

Prerequisite - See Dual Enrollment

Semester Course (1 unit credit)

Composition I is the study and practice of expository discourse to help students write more effectively. It emphasizes writing process, critical thinking, content development, organization, and style. (LCC MTA Category - English Composition)

CONTEMPORARY LITERATURE

Elective – 10, 11, 12

Prerequisite- Language Arts 9

Semester Course

This course is offered on an alternate year basis. Students will read ideas in modern contemporary novels. Novels will be connected to personal, social, and political dilemmas facing young people in our society. These issues may include but aren't limited to: gambling, alcohol use, death and suicide, harassment, poverty, relationship issues, sports issues, prejudices, moral dilemmas, and technology use. Students will use discussion, writing and other media forms to respond to ideas in novels.

WRITING FOR PUBLICATION
(NOT available 2023-24)

Elective – 10, 11, 12
Prerequisite – Language Arts 9
Semester course

This course is offered on an alternate year basis. It is a semester-long course that encourages students to explore a variety of writing experiences. Students may explore fiction writing forms, newsletter writing, personal narratives and essays, and other kinds of writing. While this class receives English credit, it is not intended as a college preparatory class and those intending to attend college should take Advanced English.

YEARBOOK/PRINT MEDIA

Elective 11, 12
Prerequisite - Approval of Instructor
Full Year Course

Students will be responsible for designing layouts, arranging picture-taking sessions, selling, advertising, and arranging fund raising activities. Skills in the above areas, as well as photography, will be taught. Photography skills are helpful, but not required. Ability to write and work independently is essential. Some time before or after school will be necessary to meet deadlines. Prior knowledge of computer based technology is expected, with opportunities to advance these skills. Previous completion of the digital imaging course is extremely helpful though not required. Layout and design techniques, using computer-based technology, will be introduced and utilized in print production.

WORLD LANGUAGE

WORLD LANGUAGE 1

Required – 9, 10 or 11
Prerequisite – none
Full Year Course

World Language 1 is a beginning course designed to establish basic communication skills in a world language. The actual content of this course will be chosen to satisfy the Michigan Merit Curriculum requirements for graduation, along with availability of a certified teacher for the course content.

WORLD LANGUAGE 2

Required – 10, 11 or 12
Prerequisite- World Language 1
Full Year Course

World Language 2 is designed to encourage fluency in a world language. The actual content of this course will be chosen to satisfy the Michigan Merit Curriculum requirements for graduation, along with availability of a certified teacher for the course content.

MATHEMATICS

ALGEBRA 1

Required- 8 or 9
Prerequisite - none
Full Year Course

This course is designed to give the student the basic fundamentals of Algebra. Topics include equations, inequalities, functions, linear functions, systems of equations, exponents and polynomials, quadratic equations, probability, exponential and radical functions, and rational functions.

ALGEBRA 2

Required – 9, 10, 11, or 12

Prerequisite - Algebra 1

Full Year Course

Algebra II is a review and extension of Algebra 1. Topics to be included are properties and operations of real and complex numbers, radicals, operations of polynomials, factoring, binomial theorem, operations of rational expressions, coordinate geometry, functions, solving systems of equations, quadratic function, exponents, logarithms, solving equations, and probability.

GEOMETRY Required - Grades 10, 11, or 12

Prerequisite - Algebra 1

Full Year Course

This course is the study of different geometric figures and their properties. Topics include geometric reasoning, parallel and perpendicular lines, triangle congruence, properties of triangles, polygons and quadrilaterals, similarity, right triangles and trigonometry, perimeter, circumference, area, spatial reasoning, circles, and transformational geometry.

PRE-CALCULUS

Elective - Grade 11, 12

Prerequisite – Alg. 2 & Geometry

Full Year Course

This course is designed to prepare students for college mathematics. Topics include equations and inequalities, functions and graphs, polynomial and rational functions, exponential and logarithmic functions, trigonometry, analytic geometry, systems and matrices, limits, and continuity.

STATISTICS AND PROBABILITY

Elective - 12

Prerequisite - Alg. 2 & Geometry

Full Year Course

An introduction to probability theory and mathematical statistics that emphasizes the probabilistic foundations required to understand probability models and statistical methods. Topics covered will include the probability axioms, basic combinations, discrete and continuous random variables, probability distributions, mathematical expectation, common families of probability distributions, and the central limit theorem.

AP CALCULUS

Elective - 11, 12

Prerequisite – Pre-Calculus

Full Year Course

This course deals with the basic fundamentals of calculus and trigonometry. Topics discussed will include trigonometric functions, relations, polynomial functions, limits, continuity, derivatives, and applications of the derivative and the definite integral. An AP Exam will be offered in May with the possibility of earning college credit. The exam is optional and at the student's expense.

MATH 120 - COLLEGE ALGEBRA (LCC)

Elective - 11 (May/June Session)

Prerequisite - See Dual Enrollment

Semester Course (1 unit credit)

This course is taken in an 8 week minisession in May and June of the Junior year. Properties and graphs of linear, quadratic, polynomial, rational, exponential and logarithmic functions, with an emphasis on applications including finance, business/industry, life and social sciences.(LCC MTA Category - Mathematics)

MUSIC EDUCATION

HIGH SCHOOL BAND

Elective - 9, 10, 11, 12

Prerequisite - Successful previous year in band /permission of instructor

Full Year Course

High School Band consists of marching, concert and pep bands with opportunities to be involved in extracurricular groups such as jazz band, percussion ensemble and chamber music. The marching band performs at all home football games as well as several parades and marching festivals. Students will be evaluated in terms of musical performance, marching ability, teamwork, attendance and spirit. Attendance is required at marching band camp in July and one nightly rehearsal per week. Concert band begins immediately after the marching season ends. Students will have opportunities to play high quality band literature and will be evaluated in terms of musical performance, attendance at performances and spirit. The concert season consists of performances in December, February and May. The pep band performs at half of several varsity basketball games throughout the season. Music consists of a range of popular music and cheers.

PHYSICAL AND HEALTH EDUCATION

PHYSICAL EDUCATION/HEALTH

Required - 9

Full Year Course

The basic physical education program is designed to provide students with physical activities to develop the body and the understanding of how the body works through health. It will provide instruction in skills needed for wholesome recreational activities. The program will include lifetime, competitive, individual, team, and classroom activities. These activities include: Soccer, volleyball, football, track, basketball, bowling, softball, physical fitness, badminton, & cardiovascular activities. Topics covered in health include disease prevention and control, personal health practices, nutrition and foods, family health, growth and development, emotional and mental health, substance use and abuse, consumer health and community health.

RECREATION & FITNESS

Elective - 10, 11, 12

Prerequisite - none

Semester Course

This course will focus on the importance of recreation and fitness in society today, emphasizing the role recreation and activity plays in lifelong physical and mental wellness. Through participation in fitness activities and the study of recreational management, this course will prepare students to be healthy, and the next recreational leaders of their communities.

SCIENCE

PHYSICAL SCIENCE (NOT available 2023-24)

Required – 9, 10

Prerequisite - none

Full Year Course

This course is offered on an alternate year basis. This is a specialized course going into more detail about some of the physical sciences that were introduced in the junior high. This course is a preparation course for all students interested in Chemistry or Physics. Topics include chemistry and the study of the characteristic properties of matter, physics with force and motion, heat, sound, and light, electricity and forms of energy. Students will be introduced to the basic techniques of laboratory usage.

BIOLOGY

Required – 9, 10

Prerequisite - None

Full Year Course

This course is offered on an alternate year basis. The course focuses on four important topics in biological science: ecology, cell biology, heredity, and biodiversity. In ecology, students will learn the basic ecological principles that apply to all living things in our world and investigate a topic of current concern in which those principles are shown. Investigation of cell structure, function, and reproduction will concentrate on relating cell processes to those of the entire organism. Our study of heredity will focus on the role of DNA in genetics and the evolutionary process. A study of the diversity of living things will incorporate laboratory and field observation, identification & dissection.

ROBOTICS

Elective - 9, 10, 11, 12

Prerequisite – Algebra 1

Full Year Course

This lab-based course will use a hands-on approach to introduce the basic concepts of robotics. Students will start with learning how to code, and then move on to design, fabrication and programming a robot. The end of course goal is to have a robot that will run autonomously and complete simple tasks.

ANATOMY & PHYSIOLOGY

Required/Elective - 11, 12

Prerequisite - Phys, Science & Biology

Full Year Course

This course explores human anatomy and physiology. Structure and function of each body system is elaborated and relationships of each within the body are discussed. Emphasis is placed on achieving an understanding of normal body function for maintenance of personal health, as well as early preparation for those interested in careers in the health professions. This course fulfills the 3rd year Science requirement. This course is a prerequisite for AP Biology in the senior year.

ENVIRONMENTAL CONSERVATION

Elective - 10, 11, 12

Prerequisite – Phys. Sci. or Biology

Full Year Course

This course surveys the natural resources of our nation and the world, discussing the ways in which we manage and mismanage those resources and the resulting effects. Topics covered include forestry, fisheries and wildlife, water and air quality, and soils. Special attention is given to current concerns such as waste management and energy conservation. Student participation in school recycling programs is required.

CHEMISTRY

(NOT available 2023-24)

Required/Elective - 11, 12

Prerequisite-Phys. Science & Biology

Full Year Course

This course is offered on an alternate year basis. Seniors are required to take this class or LCC PHYS 120 if they did not take and pass Physics or Anatomy/Physiology in their junior year. Juniors who do not take Physics will be required to take and pass Chemistry in their senior year. This course deals with the composition and behavior of substances, and the interactions between two or more substances. Topics discussed will include chemical bonding, control of chemical reactions, common compounds in the home, chemicals used in industry and agriculture, fuels, foods, plastics, and radioactivity.

PHYSICS

Required/Elective – 11, 12
Prerequisite-Phys. Science & Biology
Full Year Course

This course is offered on an alternate year basis. Seniors are required to take this class or LCC PHYS 120 if they did not take and pass Chemistry in their junior year. Juniors will be required to take Chemistry in their senior year if they do not take and pass Physics or Anatomy/Physiology in their junior year. This is a specialized course going into more detail about some topics discussed in physical science as well as college preparatory material. Topics discussed will include motion, force, gravitation, energy, momentum, sound, heat, thermodynamics, electricity, magnetism, light, radioactivity, and lasers.

CHEM 125 - BASIC CHEMISTRY (LCC)

Meets 3rd Year Science Req. - 12
Prerequisite - See Dual Enrollment
Semester Course (1 unit credit)

Intended for students who have not had high school chemistry or who require a refresher course. Measurement, problem solving, chemical formulas, chemical equations, stoichiometry, atomic structure, chemical bonding, gas laws, solutions, and acids and bases are emphasized. (LCC MTA Category - Natural Sciences)

SOCIAL STUDIES

GLOBAL STUDIES TODAY

Elective: 9, 10, 11, 12
Prerequisite – none
Semester Course

This course will study the ever-changing global society using current issues and events affecting the world today. Students will develop an awareness and understanding of the global peoples and cultures that increasingly affect our country and their lives on a daily basis.

UNITED STATES HISTORY/ GEOGRAPHY

Required: Grade 10
Prerequisite - none
Full Year Course

Survey course of historical concepts occurring from 1876 – present with an emphasis on the grade level content expectations for United State History as outlined by the Michigan Department of Education (MDE) as well as geographical concepts applied to historical content of the United States. Students will be responsible for demonstrating knowledge in written and verbal format as well as projects, and formal assessments (test, quizzes, exams).

CIVICS / ECONOMICS

Required: 11
Prerequisite - none
Full Year Course

This course is a semester each of civics and economics. In civics students will cover the foundations of government, foundational governmental documents, beginnings of the United States, comparative governmental systems, branches of government, and government in action. In Economics students will cover fundamental economic concepts, apply fundamental concepts in a macroeconomic and microeconomic focus, compare economic systems, and explore economics in action.

**POLS 120 - AMERICAN POLITICAL SYSTEM
(LCC)**

**Meets Civics Requirement: 11
Prerequisite - See Dual Enrollment
Semester Course (1 unit credit)**

This course is designed to develop objective consideration of economic issues and provides information and understanding of how resources are allocated by prices. Topics for study include price theory, consumer demand, cost and market structure, the role of government in the market, resource pricing, and international trade. (LCC MTA Category - Social Sciences)

**ECON 201 - PRINCIPLES OF ECONOMICS-MICRO
(LCC)**

**Meets Economics Requirement: 11
Prerequisite - See Dual Enrollment
Semester Course (1 unit credit)**

A comparative study of ancient and modern economic and political systems and theories in different parts of the world. An emphasis will be placed on the evolution of economic and political organizations and the impact these have on societies and individuals. (LCC MTA Category - Soc Sci)

WORLD STUDIES / GEOGRAPHY

**Required: 12
Prerequisite – none
Full Year Course**

Survey course of historical concepts from around the world occurring from 8000 B.C.E. – present including the beginnings of civilizations through contemporary civilizations as well as geographical concepts applied to historical concepts of the world. Comparative economic and governmental systems explored, religious formations, and critical thinking of the impact of world events. Students will be responsible for demonstrating knowledge in written and verbal format on projects and exams.

**HIST 216 - WORLD HISTORY SINCE 1500
(LCC)**

**Meets World Studies Requirement: 12
Prerequisite - See Dual Enrollment
Semester Course (1 unit credit)**

This course will trace the development of the modern world from 1500 by exploring cultural, social, religious, economic, and political developments and interactions that shape modern societies

**GEOG 221 - PHYSICAL GEOGRAPHY
(LCC)**

**Elective: 12
Prerequisite - See Dual Enrollment
Semester Course (1 unit credit)**

Emphasizes landforms, flora and fauna, weather and climatic elements, landforms, mass wasting, hydrology, and soils. Offers an extensive study of these forces and phenomena through lecture and laboratory exercises. This study notes the environmental and ecological interrelationships between flora and fauna, and between the physical world and human society. (LCC MTA Category - Natural Sciences - lab course)

**PHIL 151 - INTRO TO LOGIC & CRITICAL THINK
(LCC)**

**Elective: 11, 12
Prerequisite - See Dual Enrollment
Semester Course (1 unit credit)**

Introduction to modern logic and elements of reasoning, with special attention given to the roles of language in reasoning, distinguishing deductive from inductive arguments, recognizing levels of meaning and differing world views (Weltanschauungen), analyzing truth-functional relations, avoiding fallacious reasoning or misleading language, and using logical skills in everyday life. (LCC MTA Category - Humanities and Fine Arts)

**PSYC 200 - INTRODUCTION TO PSYCHOLOGY
(LCC)**

**Elective - 10, 11, 12
Prerequisite - See Dual Enrollment
Semester Course (1 unit credit)**

The basic orientation to the field of psychology, designed as a general survey and as preparation for advanced courses in the field. Topics include methods, nervous systems, intelligence, development, learning, memory, personality, abnormality, therapy, and social behavior. (LCC MTA Category - Social Sciences)

**SOCL 120 - INTRODUCTION TO SOCIOLOGY
(LCC)**

**Elective - 10, 11, 12
Prerequisite - See Dual Enrollment
Semester Course (1 unit credit)**

A survey of major theoretical perspectives, concepts, and methods of sociology. Emphasis is placed on societal transformation, social organization, culture, cultural diversity, socialization, social stratification, social institutions, and social change within a global context. (LCC MTA Category - Social Sciences)

ACADEMIC ASSISTANCE

LINKS

**Elective - 9, 10, 11, 12
Application & Principal Approval Req.
Semester or Full Year Course**

The LINKS course teaches and supports students as peer role models, mentors, tutors and friends. They primarily mentor students with Autism Spectrum Disorders (ASD) in both academic and social settings, with adult supervision. The LINK curriculum benefits assisting students and students with a disability in a reciprocal manner. The LINK student learns, through participation in the curriculum, to act as an advocate and a mentor for a student with a disability as they master content standards. The interactive nature of instruction enables the LINK to consistently broaden the range of opportunities for the student who has a disability. LINK students are engaged with students who have disabilities in the classroom as well as environments outside of the classroom. They are trained, assisted and coached by the building's special education staff and staff from CCRESA.

CONTENT READING

**Elective - 9, 10, 11, 12
Principal & Counselor Approval Req.
Semester or Full Year Course**

The Content Reading course uses the research based Rewards Reading intervention program to help students improve reading fluency and comprehension across all content areas. This course is designed for students who might benefit from improving their reading speed and comprehension to manage assigned readings in English, Math, Science and Social Studies classes. Test scores, grades, and teacher recommendations will determine which students will be allowed into the class. Individual and group techniques are used in the class to help students improve their reading skills with the intent of improving their performance in all classes.

SPECIAL EDUCATION SUPPORT

**Elective – 9, 10, 11, 12
Determined by IEPC
Full Year Course**

Placement in the Support Room is determined by an Educational Planning and Placement Committee which includes the building principal, a diagnostician (psychologist or social worker), special education teacher, and the student's parents. Instruction may be provided in language arts, general

academic support, daily living skills, vocational training, goal setting, & problem solving.

COLLEGE, ONLINE AND CAREER EDUCATION PROGRAMS

The dual enrollment and vocational education programs provide an opportunity for students to take additional classes not offered at Fowler High School that promote successful experiences in post secondary education or the workforce. Vocational education classes can be taken in the junior and/or senior year if students have taken the appropriate prerequisite coursework and meet program requirements. Dual enrollment courses can be taken in the freshman and sophomore years by meeting testing requirements and all school requirements. Juniors and seniors are eligible for the enhanced dual enrollment program by meeting the program requirements. Work based education is available only to seniors.

Students in grades 6-12 may take up to two (2) allowable online courses, as stated in Section 21f of the State School Aid Act. Requirements are as follows. At the consent of the pupil's parent or legal guardian, a district shall enroll an eligible pupil in up to 2 online courses per semester. Courses must be chosen from the following link to the Statewide Online Course Catalog – www.micourses.org. Districts will look at each request on an individual basis, and after review and pending approval, will enroll students in the online classes. Please note that our FHS courses have proven to be of the highest rigor, proven both by State standardized testing results, and college/career readiness feedback. That being stated, it is necessary to verify that an online course meets the depth of knowledge, intensity, and level of support provided in FHS courses. Traditional, dual enrollment, and vocational education courses provided at FHS are designed to match or exceed the quality, rigor, and benefits of 21f courses. The cost for an online class can not exceed 1/14 of the amount of per pupil state funding received by the school. The course must be pre-approved by the counselor and/or principal. The course must be rigorous and help to fulfill graduation requirements or grade level requirements. Online classes through the 21f program must be scheduled during 1st hour and/or 7th hour of our school day. Transportation, facilitation, support, and equipment will not be provided for said online courses by the school, but rather, will be the sole responsibility of the student. Scheduling changes will not be made to accommodate online courses. Enrollment in an online course under 21f requirements must be completed at least 30 days prior to the start of each semester, and may not be commenced part way through a semester.

DUAL ENROLLMENT

Elective – 10, 11, 12

**Prerequisite - Qualifying test scores,
Admission to the college.**

Principal & Counselor Approval Req.

Dual enrollment enables a student to take college classes along with the regular classes at Fowler High School. Students must be online to graduate and have shown success in content similar classes, if available, at FHS before taking a similar course at a college. Scores on the PSAT, SAT, Aspire, EXPLORE, PLAN, ACT, and Accuplacer tests, attendance records and academic ability in college preparatory courses are considered before permitting a student to dual enroll. The student can receive college credit for the classes. Classes are offered through Lansing Community College in a coordinated program program that fulfills the Fowler High School graduation requirements and the

LCC Michigan Transfer Agreement requirements needed to transfer to most state colleges and universities. Students are responsible for providing their own transportation and parking for any off site classes.

FHS/LCC ENHANCED DUAL ENROLLMENT PROGRAM

Overview: The FHS Enhanced Dual Enrollment Program is offered in partnership with Lansing Community College, and is built around the Michigan Transfer Agreement (MTA) requirements. It will allow students to substantially complete the MTA during their last two years at FHS. The MTA is recognized by virtually all colleges and universities across the state as the equivalent of their general education requirements. Most, if not all, of the dual enrollment classes taken by students at FHS will transition into the LCC MTA. Participating students can earn up to 42 college credits during their sophomore, junior and senior years, effectively completing their Freshman year of college while still at FHS. These 42 credits will transfer under the MTA to virtually all other Michigan colleges and universities with the exception of U of M Ann Arbor, fulfilling the majority of that school’s general education requirements.

Eligibility: To be eligible to participate in the program, students must meet both LCC’s minimum requirements, and the FHS criteria for recommendation to participate in the program. These are designed to assure we set students up for success. For that reason, a specific emphasis is placed on student performance in the core academic areas of Math, Science, English, Social Studies, and Foreign Language as good indicators of student readiness for college coursework. Also incorporated are the specific standardized test scores recommended by the Michigan Department of Education for participation in dual enrollment courses. Students who meet all of the criteria will be admitted first to the program and will be eligible for all courses. Students who do not meet the criteria in all areas will be considered for enrollment in subject areas where they meet the requirements on a case by case basis and as room allows. The current requirements are as follows:

	Sophomores	Juniors	Seniors
LCC Requirements	<ul style="list-style-type: none"> ● Accuplacer: 5 Reading 6 Writing ● PSAT: 480 Evid Based R/W 	<ul style="list-style-type: none"> ● Accuplacer: 4 Math 5 Reading 6 Writing ● PSAT: 480 Evid Based R/W 410 Math 	<ul style="list-style-type: none"> ● Accuplacer: 5 Math 5 Read 6 Writing ● PSAT: 480 Evid Based R/W (SAT) 520 Math
FHS Criteria	<ul style="list-style-type: none"> ● 3.5 GPA in core classes ● B or better in previous subject area coursework ● Meet MDE eligibility standards on SAT: Evid Based R/W 460 Math 510 ● No unexcused absences ● Less than 3 unexcused tardy ● Good discipline record 	<ul style="list-style-type: none"> ● 3.0 GPA in core classes (2.8 for PSYC/SOCL) ● B or better in previous subject area coursework ● Meet MDE eligibility standards on SAT: Evid Based R/W 460 Math 510 ● No unexcused absences ● Less than 3 unexcused tardy ● Good discipline record 	<ul style="list-style-type: none"> ● 3.0 GPA in core classes (2.6 for PSYC/SOCL) ● B or better in previous subject area coursework ● Meet MDE eligibility standards on SAT: Evid Based R/W 480 Math 520 ● No unexcused absences ● Less than 3 unexcused tardy ● Good discipline record

Courses: 5 courses will be offered each semester and will be coordinated with Junior and Senior year course requirements. Each eligible sophomore can take 1 course, and each eligible junior and senior can take up to 2 courses per semester. To fulfill both Fowler High School Graduation Requirements and the LCC MTA requirements, the following is the proposed slate of courses:

Semester	Grade	LCC Course	Fowler Credits	LCC MTA
Fall	Junior	POLS 120 - American Political System	Civics (11)	Social Sciences
	Junior	PHIL 151 - Intro Logic & Critical Thinking	Elective (11,12)	Humanities/Fine Arts
	Senior	ENGL 121 - Composition I	English (12)	Eng Comp/Comm
	Senior	CHEM 125 - Basic Chemistry	Chemistry (11, 12)	Natural Sciences
	Either	SOCL 120 - Introduction to Sociology	Elective (10, 11, 12)	Social Sciences
Spring	Junior	ECON 201 - Principles of Econ - Micro	Economics (11)	Social Sciences
	Junior	COMM 120 - Dynamics of Communication	Elective (11, 12)	Eng Comp/Comm
	Senior	HUMS 213 - World Civilizations to 1600	World Hist/Geo (12)	Humanities/Fine Arts
	Senior	GEOG 221 - Physical Geography (Lab)	Elective (11, 12)	Natural Sciences
	Either	PSYC 200 - Introduction to Psychology	Elective (10, 11, 12)	Social Sciences
Summer	Junior	MATH 120 - College Algebra	Elective (11)	Mathematics

Format: Courses will be offered through a blended instructional model that consists of 2 or 3 face to face sessions along with online coursework. Face to face sessions will meet at Fowler High School in the evening or on Saturdays, and students will be assigned time in their regular school day to complete the online component.

**CAREER CONNECTIONS
(CLINTON COUNTY RESA)**

**Elective – 11, 12
Prerequisite - FHS Sequence Courses
Principal & Counselor Approval Req.**

The Clinton County RESA Career Connections programs are organized to prepare students for 10 different careers. CCRESA students take classes at various locations in Clinton County and can receive college credit for the training. Some of the training may lead to apprenticeships or certificates of completion/achievement upon completion of the program. Auto I & II, Computers Support Systems I & II, Business Management and Entrepreneurship, Early Childhood Education, TV/Radio Broadcast/Digital Media Production I & II, Construction I & II, Allied Health I & II, Teacher Prep, Criminal Justice, Emergency Medical Services/Fire Science & Welding are available through CCRESA. Students attend classes five days a week for two to two and a half hours each day. Students are responsible for providing their own transportation and parking.

**CAREER PREP CENTER
(EATON COUNTY ISD)**

**Elective – 11, 12
Prerequisite - FHS Sequence Courses
Principal & Counselor Approval Req.**

The Eaton Intermediate School District Career Prep Center programs (Career Prep) are organized to prepare students for numerous different careers. Career Prep courses may be taken if a comparable program is not available through the CCRESA Career Connections Program. Career Prep students take classes at Lansing Community College (downtown and/or at LCC West) and may receive college credit, apprenticeships, credentials or certificates upon completion of the program. Heavy Equipment Operator, Heavy Equipment Repair, Fashion Design, Insurance & Risk Management, and Mechatronics are programs available at Career Prep. Students attend classes five days a week for two to two and a half hours each day. Students are responsible for providing their own transportation and parking.

**HEARTLANDS CAREER CENTER
(IONIA COUNTY ISD)**

**Elective – 11, 12
Prerequisite - FHS Sequence Courses
Principal & Counselor Approval Req.**

The Ionia Intermediate School District Heartlands Career Center programs (Heartlands) are organized to prepare students for numerous different careers. Heartlands courses may be taken if a comparable program is not available through the CCRESA Career Connections Program. Heartlands students take classes at their location in Ionia High School and can receive college credit, apprenticeships, credentials or certificates upon completion of the program. Plant/Animal Science, Culinary Arts, Diesel Technology and Machine Tool are programs available at Heartlands. Students attend classes five days a week for two to two and a half hours each day. Students are responsible for providing their own transportation and parking.

**CAPITAL REGION TECHNICAL EARLY COLLEGE
(CCRESA/LCC)**

**Elective – 11, 12
Prerequisite - FHS Sequence Courses
Principal & Counselor Approval Req.**

The Capital Region Technical Early College is a three year program that consists of the junior and senior years followed by a 5th year in high school during which students complete a program of study that results in a Fowler High School diploma and an associates degree or technical certificate from Lansing Community College. The program currently available offers an Information Technology certification. Students attend class primarily at Fowler High School and CCRESA in the first two years, and at LCC in the third year. Students are responsible for providing their own transportation and parking.

WORK BASED LEARNING EXPERIENCE

**Elective - 12
Principal & Counselor Approval Req.**

This program allows students to participate in a Work Based Learning Experience as provided for under the Michigan School Code and is coordinated through the CCRESA Career Connections Program. There are two program formats. The first is a traditional 1 - 2 hour a day program in which students arrange their own placements. The second is a manufacturing based program where students work 3 - 4 hours of the school day and must apply and be hired by the manufacturing employer through the CCRESA coordinated process. Students have to apply, meet all of the criteria for participation, and complete all required paperwork, including that of the prospective training station supervisor (employer). First consideration will be given to those applicants that apply first and prior to May 1 of the school year before that in which the placement is requested. Special education students may qualify for a similar work based learning experience under the parameters of their IEP. Applicants must meet all of the requirements for such placement as described in the Michigan Department of Education Pupil Accounting Manual, and any other requirements of the district that might exceed those of the state. These include but are not limited to:

1. Must be a senior in good standing to graduate
2. Must arrange for a work experience for up to a maximum of two class periods of the day.
3. Must be enrolled in a related course as is consistent with MDE CTE requirements.
4. Must have an EDP that is consistent with the work based learning experience placement.
5. Must complete and submit all required forms including the Training Agreement, the Training Plan, and the employers verification of workers disability compensation and general liability.
6. Must have the performance elements/job skills required in the Training Plan approved by the principal/counselor before submitting the application packet.
7. Must submit a 2 page letter of application with a resume that supports the proposed job placement.

9th Grade - Freshman Year					
Option 1			Option 2		
	Semester 1	Semester 2		Semester 1	Semester 2
1			1		
2			2		
3			3		
4			4		
5			5		
6			6		
7			7		
Alt			Alt		
Alt			Alt		

10th Grade - Sophomore Year					
Option 1			Option 2		
	Semester 1	Semester 2		Semester 1	Semester 2
1			1		
2			2		
3			3		
4			4		
5			5		
6			6		
7			7		
Alt			Alt		
Alt			Alt		

11th Grade - Junior Year					
Option 1			Option 2		
	Semester 1	Semester 2		Semester 1	Semester 2
1			1		
2			2		
3			3		
4			4		
5			5		
6			6		
7			7		
Alt			Alt		
Alt			Alt		

12th Grade - Senior Year					
Option 1			Option 2		
	Semester 1	Semester 2		Semester 1	Semester 2
1			1		
2			2		
3			3		
4			4		
5			5		
6			6		
7			7		
Alt			Alt		
Alt			Alt		