



## Forest Park School Course Descriptions

Approved 5/18/2020

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# **Elementary School Course Descriptions**

## **English Language Arts**

Grade: K-5

**Wonders** is a comprehensive K-6 English language arts program. It is designed to foster a love of reading in all children. Through exploration of texts and daily development of skills as readers, writers, speakers, and active listeners, students experience the power of literacy. The focus on teaching the whole child – and every child – prepares students to be lifelong learners and critical thinkers.

## **Math**

Grade: K-5

**Bridges in Mathematics** is a comprehensive PK–5 curriculum that equips teachers to fully implement the Common Core State Standards for Mathematics in a manner that is rigorous, coherent, engaging, and accessible to all learners.

The curriculum focuses on developing students’ deep understandings of mathematical concepts, proficiency with key skills, and ability to solve complex problems. Bridges in Mathematics blends direct instruction, structured investigation, and open exploration. It taps into the intelligence and strengths of all students by presenting material that is as linguistically, visually, and kinesthetically rich as it is mathematically powerful.

# **Middle School Course Descriptions**

## **English Department**

### **English Language Arts 6**

Grade: 6

This course provides the groundwork for building strong English Language Arts content knowledge through reading, writing, and speaking. This course will focus on responding to varying demands of audience, task, and purpose to produce clear and coherent writing. Writing will center around informative/explanatory, argument, and narrative. Emphasis is placed on developing comprehension through sharing, critiquing, and analyzing a wide variety of high

quality text. This course will also foster the development of self-reflective reading strategies. Genres of literature include realistic fiction, historical fiction, and science fiction.

## **English Language Arts 7**

Grade: 7

This course will continue building strong English Language Arts content knowledge through reading, writing, and speaking. It will continue to focus on responding to varying demands of audiences, tasks, and purposes to produce clear and coherent writing. Writing will center around informative/explanatory, argument, and narrative. Emphasis is placed on developing comprehension through sharing, critiquing, and analyzing a wide variety of high quality text. This course will continue to develop self-reflective reading strategies. Genres of fiction include mystery, realistic fiction, and multicultural/international literature.

## **Language Arts 8**

Grade: 8

This course will continue building strong English Language Arts content knowledge through reading, writing, and speaking. This course will also focus on high school preparation for English and will continue to focus on responding to varying demands of audience, task, and purpose to produce clear and coherent writing. Writing will center around informative/explanatory, argument, and narrative. This course will teach MLA (Modern Language Association) standard formatting. Emphasis is placed on developing comprehension through sharing, critiquing, and analyzing a wide variety of high quality text. This course will continue to develop self-reflective reading strategies. Genres of literature include science fiction, realistic fiction, and historical fiction.

## **Foreign Language**

### **Spanish (High School Credit)**

Grades: 6, 7, or 8

Credit: 0.5

Prerequisites: none

This course is an introductory foreign language class. In accordance with the Michigan World Language State Standards, this course focuses on preparing students with the necessary abilities and skills to display a basic proficiency in writing, reading, speaking, and listening in Spanish. Units include instruction on various Spanish-speaking cultures to gain a better understanding of the Spanish language. Passing this course counts as the first credit for Michigan's required World Language curriculum.

## **French (High School Credit)**

Grades: 6, 7, 8

Credit: 0.5

Prerequisites: none

This course is an introductory foreign language class. In accordance with the Michigan World Language State Standards, this course focuses on preparing students with the necessary abilities and skills to display a basic proficiency in writing, reading, speaking, and listening in French. Units include instruction on various French-speaking cultures to gain a better understanding of the French language. Passing this course counts as the first credit for Michigan's required World Language curriculum

# **Health**

## **Middle School Health**

Grades: 6, 7, 8

Middle School Health courses are units incorporated into physical education. These units focus on the aspects of health and incorporate the Michigan Model for School Health. Areas of instruction will target the Michigan Standards of Middle School Health by allowing opportunities to exercise health skills in the areas of accessing information, analyzing influences, goal setting, decision making, interpersonal communication, and effective listening. The main objectives are to promote safety, positive relationships, an understanding of oneself, and the importance of healthy habits to sustain a life of wellness.

### **6th grade units of instruction:**

- Understanding Health
- Botvin's Life Skills Program
- Puberty and Self Image
- Bullying and Internet Safety

### **7th grade units of instruction:**

- Managing Weight and Eating Behaviors
- Mental and Emotional Health
- Relationships
- Effects of Technology on Health
- Botvin's Life Skills Program

### **8th grade units of instruction:**

- Physical Activity and Health Related Fitness
- Body Image and Healthy Weight
- Body Systems
- Healthy Relationships and HIV/AIDS Prevention

# **Industrial Technology**

## **Middle School Industrial Technology**

Grade: 6, 7, 8

This course is an introduction to basic drafting and woodworking concepts. Students in this course will engage with hand drafting to increase their ability to visualize objects in our physical world and master measurement skills. Then, they will utilize drafting techniques to design and implement projects using woodworking machines within the shop, including the jointer, planer, chop saw, table saw, pneumatic nailer, band saw, and sanders. Students will also become very familiar with safety rules and expectations within the industrial technology classroom

# **Mathematics**

## **Math 6**

Grade: 6

This course provides a foundation for algebra and higher-level mathematics courses. It focuses on pre-algebra skills by solving algebraic expressions, one-variable equations, inequalities, and analyzing dependent and independent variables. The course also emphasizes the multiplication and division of rational numbers, including fractions decimals and multi-digit numbers; understanding ratio concepts; solving geometric problems involving area, surface area, and volume; and finding statistical relationships related to variability and distributions.

## **Math 7**

Grade: 7

This course is a preparation for algebra and higher-level mathematics courses. It continues to enrich pre-algebra skills by using variables, coefficients, constants, and properties of operations to solve real-life mathematical problems. The course emphasizes analyzing ratios and proportional relationships in real-world problems, comparing and evaluating functions, constructing geometric figures, finding area, surface area, and volume of geometric figures, applying the Pythagorean Theorem, making inferences using random samplings, investigating chance processes and probability, and drawing inferences based on statistical data.

## **Algebra 1 (High School Credit, required)**

Grade: 8

Credit: 1.0

Prerequisites: Math 7

This course introduces algebraic principles that will support higher-level mathematics. Emphasis is placed on creating equations or expressions that describe numbers or relationships, solving multi-step equations and inequalities with one variable, solving systems of equations and inequalities numerically and graphically, analyzing functions in all forms, writing and using function notation, applying arithmetic operations on polynomials, and factoring polynomials.

## **Music Department**

### **6<sup>TH</sup>/7<sup>TH</sup> Grade Band**

Grades: 6, 7

6<sup>th</sup> / 7<sup>th</sup> Grade Band is an ensemble that provides learning and performance opportunities on wind and percussion instruments. The primary focus is on the development, continuation, and expansion of basic skills begun the previous years that are necessary for effective instrumental music performance. In addition to large group ensembles, individual growth and achievement are encouraged through participation in adjudicated solo and ensemble contests, honor bands, and other events.

### **8<sup>th</sup>-12<sup>th</sup> Grade Band**

Grades: 8, 9, 10, 11, 12

Credit: 1.0

Prerequisites: previous instrumental experience

This course is based upon participation in marching band and concert band performances. A wide variety of music for winds and percussion will be studied and performed throughout the year. This course is intended to provide individual opportunities to participate in optional events like Solo and Ensemble Contest, Honors Band, musicale tea etc. Attending all full band performances is a course requirement.

## **Physical Education**

### **Middle School PE**

Grades: 6, 7, 8

This course is intended to emphasize physical activity in a variety of ways to encourage the development of a physically active and healthy lifestyle. Focus is placed on ways to gain cardiovascular and muscular fitness and flexibility. Activities include team sports and individual fitness targets. Various physical fitness tests are used to monitor progress throughout the year. Besides physical activity, a desired goal is to develop confidence, problem-solving skills, leadership skills, and the importance of good sportsmanship by being a team-player.

# **Science**

## **Science 6**

Grade: 6

This course concentrates on the fundamentals of science, as well as each of the three fields of science (Physical, Life, and Earth). The scientific method, scientific writing, metrics, data analysis, and a research project on a science question of the student's choice help solidify the fundamentals of science. Physical science focuses on matter and energy, Life science focuses on ecosystems, and Earth science focuses on the composition, properties, and changes of the Earth. Real-world examples, such as the rearing of trout in the classroom, are used throughout the course to supplement the MI NGSS standards.

## **Science 7**

Grade: 7

This course reviews the fundamentals of science and provides a more in-depth study of each of the three fields of science (Physical, Life, and Earth). The scientific method, scientific writing, metrics, and data analysis are reviewed. Physical science focuses on waves and energy, the physical and chemical properties as well as changes in matter, and elements/compounds; Life science focuses on the structures and processes of living things; and Earth science will focus on the fluid Earth. A formal lab write-up is incorporated into the chemical change unit, and real-world examples such as the photovoltaic solar panel at Forest Park are used throughout the course to supplement the MI NGSS standards.

## **Earth Science**

Grade: 8

This course is designed to prepare students for advanced science classes, as well as provide a fundamental understanding of the concepts of Earth science. The course emphasizes the organization principles of Earth science, geology, meteorology and climatology; hydrogeology and resource/environmental challenges; and astronomy. Concepts include real-world applications, scientific writing (formal lab write-ups), and labs. Real-world examples are used throughout the course to supplement the MI NGSS standards.

# **Social Studies**

## **Social Studies 6**

Grade: 6

This course is an introduction to world geography. Students will learn the processes by which geographers, historians, archaeologists, etc. use to do their work. How the earth affects behaviors of people as well as how the behaviors of people affect the earth will be covered. Students will begin to understand the term 'culture' more deeply along with comparing and contrasting cultures of different peoples from around the world. Emphasis will be placed on the development of study skills, critical thinking, connecting main ideas, and mapping. Discussions include similarities and differences of world cultures in relation to those of the United States.

## **Social Studies 7**

Grade: 7

This course focuses on ancient World History and Geography. Students will follow the early history of humankind from the first hunter gatherers through the great civilizations, major world religions, early trade networks, and how this all connects to the modern world. Emphasis will be placed on the development of study skills, critical thinking, connecting main ideas, and mapping.

## **Social Studies 8**

Grade: 8

This course is an introduction to American history from the Revolution through the Reconstruction Era, with an emphasis on the values and ideals of the constitutional republic. Topics include the United States Constitution and the evolution of the government, the Declaration of Independence, the Civil War and Reconstruction, and contemporary public issues. Significant attention is paid to the development of content literacy skills including reading informational text, writing, and speaking. Using primary and secondary sources, the course also develops disciplinary literacy in history.

# **Technology Department**

## **Technology 6**

**Grade: 6**

This course concentrates on the fundamentals of technology. The essentials of hardware and software, operating systems, and office suites are taught. Keyboarding is practiced throughout the class. Microsoft Office and Google Drive are used in class, with focus placed on word processing and presentation software. Computer programming/coding is also emphasized in class. Cyber safety is incorporated throughout the class.

## **Technology 7**

Grade: 7

This course continues the study of the fundamentals of technology, including the essentials of hardware and software, operating systems, and office suites. Keyboarding is reviewed and practiced throughout the class. Microsoft Office and Google Drive are used in class, with focus on word processing, presentation, publishing, and spreadsheet software. Computer programming/coding is emphasized and cyber safety is incorporated throughout the class.

## **Computers 8**

Grade: 8

Emphasis will be placed on the exploration of Career Pathways and using digital media to communicate specific avenues of career paths.

## **Robotics**

Grade: 6,7,8

This course is a lab-based course that uses a hands-on approach to introduce the basic concepts of robotics, focusing on the construction and programming of autonomous mobile robots.

# **High School Course Descriptions**

## **Business Education**

### **Info Tech 1** (required)

Grade: 9

Credit: .5

Prerequisites: none

This course is an introduction to the digital age: specifically computers, communications, the digitization of information and the exchange of digital information. Students will be exposed to the Microsoft Office Suite. Emphasis is placed on how to properly research the internet, create digital presentations and videos, word process, create spreadsheets and databases.

### **Info Tech 2** (required)

Grade: 10

Credit: 1.0

Prerequisites: Info Tech 1

This course focuses on exposure to various software applications. An in-depth approach will be taken in the creation of documents. Emphasis will be placed on desktop publishing, graphic design, graphic editing, and website development. Proper use of social networking and the power of file sharing will be explored.

## **Media Productions**

Grades: 11, 12

Credits: 1.0

Prerequisites: Info Tech 2

This course is an applied computer application class enforcing the concept and principles of desktop publishing. Included in the class are the layout and design of a variety of different printed publications such as the school yearbook. The Video Productions portion of the course is designed to utilize digital video as an innovational, viable instructional tool in the classroom. An instructional digital video process, specifically designed and developed for the course, is used to provide focus and direction to the students. The nature of the course commands hands on total motivation, creativity and interest.

## **Consumer/Business Mathematics**

Grades: 11/12

Credits: 1.0

This course is intended to demonstrate how mathematics can be used effectively as a tool in personal and business lives by the application of arithmetic skills. The course focuses on occupational topics: details on jobs, wages, deductions, taxes, insurance, recreation and spending, and transportation. Topics include personal finances, checking and savings accounts, loans and buying on credit, automobile expenses, and housing expenses.

## **Financial Accounting**

Grades: 11, 12

Credits: 1.0

Prerequisites: none

This course is designed to provide a background in business, marketing, and management. This course includes planned learning experiences that develop initial and basic skills used in systematically computing, classifying, recording, verifying, and maintaining numerical data involved in financial and product control records, including the paying and receiving of money. Instruction includes information on keeping financial records, summarizing for convenient interpretation, and analyzing to provide assistance for management in decision-making. This course provides coverage of three types of business – proprietorship, partnership, and corporation. Each type of business is presented in a complete accounting cycle covering analyzing transactions, journalizing, posting, petty cash, financial statements, and adjusting and closing entries. Accounting concepts are introduced using a modern business with owners that students can relate to in each cycle.

## **English Language Arts**

### **English 9** (required)

Grade: 9

Credit: 1.0

This course explores a variety of literary works including short stories, novels, plays, and poetry. Focus is placed on diverse methods of examining literature and the development of a broad vocabulary of important literary terms used to interpret various works of literature in future English courses. This course emphasizes the process of distinguishing important organization and rhetorical writing and speaking skills along with a strong basis for accomplishing higher-level thinking, logic, and reasoning skills. This course continues to build on the foundations necessary to produce good writing learned in ELA 6 - 8.

### **English 10** (required)

Grade: 10

Credits: 1.0

Prerequisites: English 9

This course is designed to reinforce the basic foundations set forth in the 9<sup>th</sup> grade English curriculum. Through the examination of various works of literature, emphasis is placed on the development of strong analytical skills necessary to improve both reading comprehension and to create cohesive responses through writing. In addition to text analysis, the course also focuses on vocabulary acquisition and application.

### **English 11** (required)

Grade: 11

Credits: 1.0

Prerequisites: English 10

This course is designed to strengthen the skills acquired through both 9<sup>th</sup> and 10<sup>th</sup> grade English. This course explores the evolution of the English language and various works of British literature. The course also enhances the ability to comprehend complex writing and formally construct an organized response utilizing research components. Additionally, this course provides structured preparation for the SAT test.

## **English 12** (required)

Grade: 12

Credits: 1.0

Prerequisites: English 11

This course focuses on American literature. Content ranges from pre-colonial oral traditions through the present with modern poetry and the short story genre. Throughout the course, emphasis is placed on critical thinking processes and writing at a college level. An in-depth research paper culminates the course. Additionally, the course develops reality-based experience by writing resumes and personal statements, as well as reviewing scholarships and job applications.

## **Foreign Language**

### **Spanish 1** (required)

Grades: 9, 10, 11, 12

Credit: 1.0

Prerequisites: none

This course is an introductory foreign language class. In accordance with the Michigan World Language State Standards, this course focuses on preparing students with the necessary abilities and skills to display a basic proficiency in writing, reading, speaking, and listening in Spanish. Units include instruction on various Spanish-speaking cultures to gain a better understanding of the Spanish language.

### **Spanish 2**

Grades: 10, 11, 12

Credit: 1.0

Prerequisites: Spanish 1

This course is a continuation of Spanish I core ideas with emphasis on advanced grammar, language, and cultural concepts. This course continues to supplement the language with a variety of cultural lessons highlighting different Spanish speaking countries.

### **Spanish 3/4**

Grades: 11 or 12

Credit: 1.0

Prerequisites: A grade of B or better in Spanish 2 and Instructor Approval

Spanish III/IV is a two-year long course. Section A (Spanish III) is offered on graduating odd years (e.g., '17, '19, '21), and Section B (Spanish IV) is offered on graduating even years (e.g., '16, '18, '20). This course focuses on advanced proficiency in writing, reading, speaking, and listening to the Spanish Language. Emphasis is placed on vocabulary and advanced Spanish grammatical and cultural understanding.

## **Health**

### **High School Health** (required)

Grades: 9, 10, 11, 12

Credits: .5

Prerequisites: none

This course focuses on establishing patterns of healthy behavior and decision-making that assists in achieving complete life-long health and wellness. Emphasis is placed on a scientific and biological approach to fully understand growth and development, human body and mind. The importance of prevention will be a key factor in units of instruction for establishing a healthy foundation early on in life. Focus is placed on nutrition; stress, anxiety, depression, and suicide prevention; the science of addiction; and prenatal development.

## **Industrial Technology**

### **Industrial Technology**

Grades: 9, 10, 11, 12

Credit: 1.0

Prerequisites: none

This course is designed to expand the skills and knowledge acquired in the middle school industrial technology classes. Students in this class will receive a broad industrial technology education that gives a general overview of woodworking, construction, CAD, and welding principles. Students will engage with all the machines in the shop, including welders and carpentry equipment, to design and create projects. First year students will be exposed to introductory shop skills while working through a set curriculum. Second, third, and fourth year students will be given more freedom to design and create their own projects.

# **Mathematics**

## **Algebra 2** (required)

Grades: 9, 10, 11 or 12

Credit: 1.0

Prerequisites: Algebra 1

Algebra 2 is designed to reinforce concepts of Algebra 1 and include new studies of linear equations, factoring, rational expressions, quadratic equations, imaginary and complex numbers, radicals, proportions, and statistics.

## **Geometry** (required)

Grades: 9, 10, 11, or 12

Credit: 1.0

Prerequisites: Algebra 1

This course introduces basic geometric principles. Emphasis is placed on geometric constructions, geometric theorems, similar figures and similarity theorems, transformation of images in a coordinate plane, circle theorems, arc lengths, and trigonometric ratios in right triangles.

## **Pre-Calculus**

**Grades: 11, 12**

**Credit: 1.0**

**Prerequisites: Geometry, Algebra 2**

This course is intended to lay the groundwork for further study of mathematics at the high school and college levels. Emphasis is placed on discrete mathematics to develop students' quantitative reasoning and problem-solving skills. Pre-Calculus includes algebraic topics of linear and quadratic equations, higher degree polynomials, function properties and graphing. Pre-Calculus includes a semester study of Trigonometry. Topics include angles, trigonometric ratios, right-triangle and non-right triangle trigonometry, identities, and graphing.

## **Calculus, online through Bay College as dual enrollment course**

Grades: 12

Credit: 1.0

Prerequisites: A grade of B or better in Pre-Calculus, a cumulative GPA of at least 2.5, a grade of B or better on placement exam, and instructor approval for enrollment through Bay College.

This course places emphasis on integrated and motivational applications which are designed to show the real-world relevance of calculus topics and concepts. Emphasis is placed upon: functions, graphs, limits, differentiation and applications of the derivatives, integration techniques and applications, trigonometric functions, and polynomials and functions of several variables.

## **Music**

### **8<sup>th</sup>-12<sup>th</sup> Grade Band**

Grades: 8, 9, 10, 11, 12

Credit: 1.0

Prerequisites: previous instrumental experience

This course is based upon participation in marching band and concert band performances. A wide variety of music for winds and percussion will be studied and performed throughout the year. This course is intended to provide individual opportunities to participate in optional events like Solo and Ensemble Contest, Honors Band, musicale tea etc. Attending all full band performances is a course requirement.

## **Physical Education**

### **High School Physical Education/Advanced Fitness**

Grades: 9, 10, 11, 12

Credits: .5

This course is intended to provide opportunities to further develop skills and knowledge related to health and fitness. Emphasis is placed on growth and development and an awareness of what can positively or negatively affect the body and mind. Physical competence with an understanding of how exercise directly affects the body and mind; acquired knowledge and skills related to aerobic and anaerobic exercise; how an understanding of why leading a healthy and physically active lifestyle is important to overall wellness, and prenatal development and STI and pregnancy prevention.

# **Science**

## **Physical Science** (required)

Grade: 9

Credit: 1.0

Prerequisites: Earth Science

This course includes one semester of Introduction to Physics and one semester of Introduction to Chemistry. The Physics portion focuses on one dimensional motion, Newton's Laws, Forces, Electricity and Energy. The Chemistry portion focuses on Matter, Atoms, the Periodic Table, Chemical equations and Chemical Reactions.

## **Biology** (required)

Grade: 10

Credit: 1.0

Prerequisites: Physical Science

This course emphasizes the study of ecology, cells, genetics, and evolution. Ecology topics include global environmental issues, population dynamics, biodiversity, invasive species, species interactions and symbiotic relationships; cellular topics include types of cells, their structure and function, physiology and maintaining homeostasis; genetics include basic genetics, epigenetics, and the interaction of genes and the environment; and an in-depth study of Evolution concludes the course.

## **Chemistry**

Grades: 11 or 12 (Alternates years)

Credit: 1.0

Prerequisites: Physical Science, Algebra I, Biology

This course is designed as preparation for introductory college chemistry courses. Topics include fundamentals of chemistry, atomic theory, periodic table, quantum mechanics, bonding, nomenclature, formulae and equations, stoichiometry, states of matter, thermochemistry and solutions, acids/bases, and redox/equilibrium reactions. Concepts will include real-world applications, scientific writing (formal lab write-ups), and labs.

## **Anatomy & Physiology**

\* Alternates every other year

Grades: 11 or 12

Credits: 1.0

Prerequisites: Biology

This course is designed as preparation for college anatomy and physiology of the human body. Topics include biochemistry, basic anatomical terms and directions, tissues, as well as human body systems such as Skeletal, Muscular, Nervous, Cardiovascular, Respiratory, Endocrine and Reproductive Systems. The course includes dissection of a heart and a fetal pig.

## **Environmental Science**

\* Alternates every other year

Grade: 11, 12

Credit: 1.0

Prerequisites: Biology

This course focuses on hands on environmental learning. Topics include the study of biomes, global environmental issues, watersheds, dendrology (the study of trees) as well as forest management. Other projects include mammals and winter tracking, fish, their habitat requirements and measuring water quality using chemical and bio-indicators.

## **Physics**

Grade: 11 or 12 (Alternates years)

Credit: 1.0

Prerequisites: Physical Science and Pre-Calculus

This course is designed as preparation for introductory college physics courses. Topics include fundamentals of physics, 1D motion, 2D motion and forces, dynamics, momentum, periodic motion, mechanical energy, mechanical waves, electromagnetic waves, electric forces, electric current, energy transformations, and energy in society. Concepts will include real-world applications, scientific writing (formal lab write-ups), problem solving, and labs.

## **Social Studies**

### **U.S. History and Geography** (required)

Grade: 9

Credits: 1.0

This course is intended to build upon previous course work in United States history beginning in 1865 to the present. Emphasis is placed on reconstruction of the United States after the Civil War, the emergence of the United States as a world power, its foreign policy, economic development and growth, as well as political, social, and cultural developments of the nation through the twentieth century. Social studies skills which include reading, writing, organization, analysis, note taking, discussion and critical thinking are applied within this chronological survey.

### **World History and Geography** (required)

Grade: 10

Credits: 1.0

This course is an introduction to the major cultures of the world and builds on previous course work in Western and Eastern Hemisphere studies. Emphasis is placed on the impact of religion, geography, politics, and economics on the development of these cultures. This course includes an overview of Eastern and Western Europe, the Far East, North Africa and the Middle East, and other areas in relation to these locations. These topics are studied with a geographic and chronological framework which is intended to focus upon the interrelationships between current cultures and historical events.

### **Government-Civics** (required)

Grades: 11, 12

Credits: .5

This course is a study of the structure and functions of the U.S. federal government. Students will study the foundations of the U.S. government system, including the Constitution and Bill of Rights, the Political Party system, and current political issues. The legislative, executive, and judicial branches will be covered in depth, including: qualifications, duties and changing roles and responsibilities.

## **Economics** (required)

Grades: 11, 12

Credits: .5

This course is a study of classical economics and Keynesian economics. Micro and Macro-economics are studied using supply and demand models and how and why households, business firms, and units of government make choices. Emphasis will be placed on fiscal and monetary policies, price systems, and international trade.

## **Visual Arts**

### **Art 1**

Grades: 9, 10, 11, or 12

Credit: 1.0

This course offers an introduction to the basic elements/principles of art and design. The class will be project based, and will consist of a variety of two-dimensional and three-dimensional projects. Students will be encouraged to express their feelings/thoughts/experiences through a variety of mediums, such as graphite, ink, watercolor, tempera/ acrylic paint, charcoal, chalk/oil pastels, and recycled materials. Students will learn the basics of drawing, painting, printmaking, and sculpting. The course is supplemented with the history of art and influential artists of varying time periods, nationalities, and styles. Some research and writing will be required.

### **Advanced Art (Art 2)**

Grades: 10, 11, or 12

Credit: 1.0

Prerequisites: Art 1

Art 2 is a continuation of Art 1 and will further cover topics not explored in Art 1.

### **Advanced Art (Art 3&4)**

Grades: 11, 12

Credit: 1.0

Prerequisites: Art 1 &2

This course is designed to further develop personal creative skills with a detailed exploration into art media and critical analysis methods. Students will further pursue a chosen theme and media to work with as their overarching guide. Prerequisites are required.

## **Other Educational Opportunities**

### **On-line Education/Dual Enrollment**

Grades: 6, 7, 8, 9, 10, 11, 12

Courses are available on-line for elective purposes. Courses offered at Forest Park will not be available on-line to fulfill a Michigan Merit Curriculum Course, unless there is a scheduling conflict. Courses are available from the following sources and their course catalogs.

Schoolcraft Community College

<https://www.schoolcraft.edu/academics/catalogs>

Michigan Virtual High School

<https://michiganvirtual.org/courses/students>

Bay College

<https://www.baycollege.edu/admissions/dual-enrollment.php>

Edgenuity-Michigan

<https://www.edgenuity.com/course-lists/Edgenuity-Michigan-Course-List.pdf>

Apex

<https://www.apexlearning.com/catalog>

Edmentum

<https://www.edmentum.com/course-catalog>

Forest Park classes may be available through a virtual platform when necessary because of unforeseen circumstance. The teacher of record and instruction will be the same as the face to face learning teacher. The Forest Park virtual courses will offer the same course descriptions as the Forest Park face to face courses and will address the state standards. Virtual learning coursework will include assignments and assessments consistent with the face to face coursework. An unlimited number of non-resident students are eligible to participate in virtual learning through Forest Park. Students will be required to attend courses virtually or view recorded lessons. Teachers will communicate as necessary to fulfill attendance requirements. Other options may be available if they meet the requirement of a student's Educational Development Plan.

## **Peer-to-Peer**

Grades: 9, 10, 11, 12

The Peer to Peer support class provides opportunities for general education students to learn to relate to people with different needs and develop an increased understanding of individual differences. Peers support students with special needs and asked to model and reinforce socialization and independence skills. The class teaches information about disabilities, stereotypes, breaking down barriers, developing peer mentor skills, and many other topics. The student enrolled in peers will be a mentor, role model, and friend to a student with a special need. In this role, the peer student will be with their assigned ASD student a minimum of one class period per day. In addition to being a mentor, role model, and friend, they will assist the student in such things as appropriate classroom behavior, organization of assignments and supplies, and focusing on what the teacher is saying.

## **Teacher Cadet**

Grades 11, 12

Credit: 1.0

The primary goal of the Teacher Cadet Program is to encourage academically talented, high-achieving, high school students with exemplary interpersonal and leadership skills to consider teaching as a career. An important secondary goal of the Program is to develop future community leaders who will become civic advocates for public education. The Teacher Cadet Program uses an innovative approach designed to attract talented young people to the teaching profession through a challenging introduction to teaching. The Program seeks to provide high school students with insight into the nature of teaching, the problems of schooling, and the critical issues affecting the quality of education in America's schools.

## **Career Coop (Work Base Learning)**

Grades: 11, 12

The Forest Park Work-Based Learning (WBL) program is designed to allow students the opportunity to gain valuable on-the-job training and experience in a real-world setting, while also earning credit toward High School graduation. It is expected that the placement and circumstances surrounding a WBL application and possible placement are aligned with the student's long-term education and professional goals, as well as their Educational Development Plan (EDP). Students who are not placed, for whatever reason, within five (5) days after the start of the semester may be dropped from the WBL program and enrolled in traditional classes.

General information about the program is outlined below, and is followed by a formal application for participation in the WBL program. Students and parents are encouraged to call the school (906-214-4695 ext. #322) with any questions or concerns about the program.

## **DIISD Technical Education Center**

Grades: 11, 12

\*See Appendix A: Dickinson-Iron Technical Center Course Descriptions

## **Early College**

Grades: 11, 12

\*See Appendix A: Dickinson-Iron Technical Center Course Descriptions

Students enrolled in the Dickinson-Iron Early Middle College are eligible to participate at the Commencement exercises at the end of their 12th -grade year if all other requirements are met. Students in the Early Middle College are not eligible for graduation until completion of the Math Requirement with an Early Middle College math course during their 13th year of high school. Students will receive their diploma at the end of their 13th year upon successful completion of the Early Middle College program.

## Forest Park Graduation Requirements

Required Credits	Subject Area	Required Courses
4.0	Mathematics	Algebra 1 Algebra 2 Geometry One additional math-related course must be taken during the senior year
4.0	English	English 9, 10, 11, and 12
3.0	Science	Physical Science Biology Physics <i>or</i> Chemistry <i>or</i> Anatomy <i>or</i> Environmental Science
3.0	Social Studies	Civics (.5 credit) Economics (.5 credit) US History/Geography World History/Geography
.5	Physical Education*	District approved extracurricular activities to fulfill .5 Phys. Ed. Requirement: *Basketball Cheerleading .25 cr. *Football Cheerleading .25 cr. *Track .25 cr. *Golf .25 cr. *Football .5 cr. *Basketball .5 cr. *Volleyball .5 cr.
1.0	Visual/ Performing/ Applied Arts	Industrial Technology, Art, Band
2.0	Foreign Language	Students have a choice of: 2 years of same foreign language <i>OR</i> 1 year Foreign Language and 1 year CTE coursework <i>OR</i> 1 year Foreign Language and 1 year additional visual, performing and applied arts credit
2.0	Other Required Courses	Info Tech (.5 credit) Info Tech 2 (1.0 credit) Health (.5 credit)
4.5	Electives	
<b>24.0</b>	<b>Total Credits Required for Graduation</b>	

**A full-time Forest Park student is defined as a student who takes the equivalent of seven (7) hours of course work.**

**DICKINSON-IRON INTERMEDIATE SCHOOL DISTRICT**

**1074 Pyle Drive, Kingsford, MI 49802-4494**

*Jennifer Huotari, Superintendent*

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*Michael Mulligan, Technical Education Director*

906-779-2697

# **Dickinson-Iron Technical Center**

## **Course Descriptions**

**2022-2023**

UPDATED January 23, 2022

### **Automotive Technology – NATEF Maintenance and Light Repair – Block 1, 2, & 3**

**Prerequisite:** None

This program follows National Automotive Technicians Education Foundation (NATEF) standards for Maintenance and Light Repair. During the two-year program, students will learn shop and personal safety, tools and equipment, preparing vehicles for service and workplace employability skills. The program is broken down into modules to develop a general knowledge and understanding of the following topics: Shop Safety, Braking system, automatic and manual transmissions, HVAC systems, Engine Repair, Engine Performance, Suspension and Steering, Electrical systems. Upon completing of the two-year program students will have the base knowledge to pursue further education in the auto repair industry.

**Articulated credit available.**

**Certifications:** NATEF MLR

### **Automotive Technology III**

**Third course of study is open to students with permission of instructor and Tech Center Principal. Students may engage in advanced study on one of the eight areas of Automotive Licensing. Students may also be placed in a workplace learning site.**

### **Computer Networking and Security, I – Block 1 & 2**

**Prerequisite:** None

This course aligns with college curriculum in Networking and Cyber Security. It will introduce students to computer concepts in personal computer hardware and software, internet, security, networks and ethics. Students will learn how to use of computer technology for professional and personal use and the skills needed to install, configure, and service hardware, operating systems, and applications. Students will also learn to configure stand alone or networked computer for reliability and security.

**Articulated credit available.**

**Certifications:** A+ Certification

**Up to 8 Bay College Credits available.**

### **Computer Networking and Security II – Blocks 1 & 2**

**Prerequisite:** B or better in Computer Networking and Security I or Instructor Permission.

This course validates the knowledge and skills of networking professionals. It is a vendor-neutral certification that recognizes a technician's ability to describe the features and functions of networking components and to install, configure and troubleshoot basic networking hardware, protocols and

services. This course continues building upon students' knowledge in computer networking and communication. It provides theoretical knowledge exploring both the hardware necessary to support computer networks and the software needed to utilize and secure those networks. Students will have hands-on training in designing, installing, and managing network devices. This includes Basic network topologies, network protocols, and local and wide-area networks. They will learn to trouble shoot problems across networks. Major topics include principles of Wide Area Networks, IP and TCP, routers, routing protocols and configurations, virtual LANs, network management, subnetting, design of LANs and WANs, and security issues. Students completing this course will prepare to take entry level certification exams.

**Students in this class are expected to compete in BPA in Computer Networking or Cisco Administration.**

**Articulated credit available.**

**Certifications:** Network+ and CCNA, Route/Switch

**Up to 8 Bay College Credits available.**

### **Computer Networking and Security III**

**Third course of study is open to students with permission of instructor and Tech Center Principal. Students may engage in advanced study working toward CISCO and other Industry certifications. Students may also be placed in a workplace learning site.**

Students interested in Information Technology should consider the *Dickinson-Iron Technical Early College program*. For more information see page 11.

### **C++ and Creation with Unreal Engine – Block 3 only**

**Prerequisite:** Algebra I

This one-year course will utilize game programming to develop the core skills needed to begin coding with the **C++ or C# formats** which are the two most popular programming languages used by professionals. Student's skills will be challenged by creating progressively complex games. The course will culminate with students creating one ambitious game project which will test their creativity and mastery of the curriculum. There are numerous lucrative employment opportunities for computer and gaming programmers. Students who continue their education in this area will benefit from the foundation this course provides as they prepare to acquire valuable certifications such as: CLA: C Programming Language Certified Associate, CPA: C++ Certified Associate Programmer, CPP: C++ Certified Professional Programmer.

**Articulated credit available.**

### **Construction Trades I & II – Blocks 1, 2 & 3**

**Prerequisite:** None

This course provides students with a wide variety of hands-on experiences, all related to the multi-faceted construction industry. Students have opportunities to use a wide array of power and hand-held tools. Students will be able to learn and practice rough and finish carpentry; basic plumbing and electrical installation; insulation, drywall hanging and finishing; building codes and laws; and general construction safety inside our new Trades Center. Students will be able to practice on the grounds of the Tech Center leveling and layout instruments; proper installation techniques of both concrete flat work and masonry. Students will learn work place safety, how to read architectural drawings, construction materials, construction tools and equipment, common construction practices, codes and laws, heavy equipment/civil construction techniques, and construction business management. Students in their second year will have the opportunity to be involved in work-based learning to enhance their skills in different trades. Students are prepared for entry-level employment skills in the construction field, entering a trade school apprentice program and for participation in post-secondary construction related programs such as construction management, construction engineering, architecture or becoming a licensed contractor.

**Articulated credit available.**

**Certifications: OSHA10**

### **Construction Trades III**

**Third course of study is open to students with permission of instructor and Tech Center Principal. Students may engage in advanced study working toward pre-apprenticeship training in a construction related field or work toward a state license exam. Students may be placed in a workplace learning site.**

### **Education Careers I –Block 1, 2 & 3**

This course will introduce the student to the profession of teaching. It will allow students to explore and make informed decisions regarding a career in education. Students will be exposed to the process and choices necessary to become teachers; the challenges and opportunities of teaching; educational thought and history; and the organization, control, supervision, financing, and other aspects of American education. Students will assist a mentor teacher for hands-on experience to gain knowledge and an understanding of the field of education from a teacher perspective while enhancing communication skills by working with early childhood, elementary and/or middle school students. Working alongside a professional educator as a Teaching Assistant intern will help solidify your career goal before leaving high school. A criminal background check and TB test are required.

**Dual Enrollment Credit may be available**

## **Education Careers II –Block 1, 2 & 3**

### **Prerequisite: Education Careers I**

This course is for students interested in pursuing a career in education after high school. It is an introduction to the application of psychological principles and research to teaching and learning. It will expose the student to the processes of teaching and learning from the constructivism, social cognitive, cognitive, and behavioral perspectives. The study of teaching and learning is an integral part of the preparation of those who will become teachers. Understanding the development of the student, diversity, learning, motivation, classroom management, and instruction will make a teacher more effective and the student a better learner. Classroom field experience is an integral part of the class and requires a criminal background check and TB test. Additional requirements may be necessary depending on the work site. Successful completion of Careers in Education 1 with a C or higher is required.

**Dual Enrollment Credit may be available**

## **Health Occupations – Core – Blocks 1 & 2**

### **Prerequisite:** None

Health Occupations at the Technical Education Center provides students with a core of medical theory and skills needed to enter the health care profession. Core tasks that all students study include: medical ethics, safety, asepsis, body structure and function, assessment, vital signs, communication, emergency procedures (including CPR certification), transporting/transferring/ambulating/positioning, nutrition, hygiene/personal care/comfort, basic medical terminology, medical math and career exploration. Students will experience work-based learning/clinical experiences that are completed in nursing homes, hospitals, and private health care offices throughout our community. Students are responsible for their own transportation to and from clinical sites (in some cases existing bus routes may be utilized). This course prepares students both for entry-level job positions and college programs. Students enrolling in this course are required to under-go a **background check** to verify their eligibility to participate in clinical placements and/or to pursue a career in the health field. In addition students must provide proof they are free of active tuberculosis (**recent TB test**) and have up to date **immunizations**. Some facilities now mandate, prior to clinical placement, students receive a **full drug screen**. If required, the cost of drug screens and background checks will be covered by the Technical Center. Dual enrollment credit is available to students who enroll with Bay College. Specific criteria must be met to earn this credit.

**Articulated credit available.**

**Certifications:** CPR, First Aid

**Bay College Credits available**

### **Health Occupations – Medical Terminology – Block 3**

**Prerequisite:** None

Health Occupations – Medical Terminology at the Technical Education Center is a college level body systems medical terminology course. Medical terminology is required to interact and function clinically in the health care field. This course is designed to provide a thorough investigation into suffixes, prefixes, and word components. Students will be able to utilize medical terminology as it relates to anatomical structures, pathophysiology and the general healthcare field. Dual enrollment credits are available to students who register with Bay College. Specific criteria must be met to earn these credits.

**Articulated credit available.**

**Bay College Credits available**

Students interested in Health Occupations should consider the *Dickinson-Iron Technical Early College program*. For more information see page 10.

### **Health Occupations III**

**Third course of study is open to students with permission of instructor and Tech Center Principal. Students may engage in advanced study working toward a specific health care certification. Students may also be placed in a workplace learning site.**

### **Mechatronics I & II – Blocks 1, 2 & 3**

**Prerequisite:** None

The demand for engineers, industrial maintenance, and trades people is at an all time high. Manufacturing growth and the retirement of the baby-boomers have created steady growth of high paying careers. This course will prepare you for these careers with state of the art trainers to teach you technical skills. These skills include wiring an electrical panel, aligning a mechanical system with motors, shafts, belts, chains and gears, setting up and operating pneumatic and hydraulic systems, wiring and conduit for power distribution, programming Programmable Logic Controllers and FANUC robots, and designing and cutting on computerized CNC machines. During this course, you will have hands-on training and visits to local industries. Certifications include OSHA 10 safety training and FANUC robotics. You can show your skills during the annual Wiring Skills competition. This course also offers Early Middle College and dual enrollment opportunities. **Articulated credit available.**

**Up to 12 Bay College Credits available.**

### **Mechatronics III**

**Third course of study is open to students with permission of instructor and Tech Center Principal. Students may engage in advanced study including Mechanical Drives, Level 2 PLC training, wiring with low voltage. Students may also be placed in a workplace learning site.**

Students interested in Mechatronics should consider the *Dickinson-Iron Technical Early College program*. For more information see page 10.

### **Marketing I – Blocks 1, 2, & 3**

**Prerequisite:** None

This is an innovative course designed for students with an interest in marketing and advertising. Instruction will include an introduction to the fundamental marketing concepts through a variety of marketing topics and activities. There will be a strong emphasis on employability skills and communication in the work force. Students will learn how products are developed, branded, and sold to businesses and consumers. Students will analyze industry trends and gain hands-on experience in the marketing of goods, services, and ideas. Students will be able to actively practice these theories through The Market Place (our school store). Topics covered will also include professionalism in the workplace, product planning and positioning, promotion, pricing, selling, economic issues, and the impact of technology on the marketplace. Guest speakers and field trips will also serve as a learning opportunity for students. An integral part of the program is participation in the school's business-related competition activities. These will offer marketing students opportunities in leadership, community service, and competitive events.

**Articulated credit available.**

### **Marketing II Entrepreneurship Blocks 1, 2, &3**

**Prerequisites: Must have earned and 80% or higher in Marketing I and have missed no more than 16 days of chargeable absence in the Marketing I.**

**Students in Marketing II will need to apply to either be store managers or have transportation so they can be placed at a workplace learning site for a minimum of three days a week. They will be engaged in enhanced studies of marketing and business.**

### **Marketing & Entrepreneurship III**

**Third course of study is open to students with permission of instructor and Tech Center Principal. Students may engage in advanced study including business management and entrepreneurship. Students will work toward a national retail certification. Students may also be placed in a workplace learning site.**

### **Graphic Communications I & II – Blocks 1, 2, & 3**

**Prerequisite:** None

The Graphic Communications program at the Technical Education Center will prepare students for post-secondary college programs or entry into the work force in the production printing industry. Students will be exposed to and learn foundational skills relative to computer layout and design, press operation, bindery work and customer service. This is an excellent course for male or female students interested in computers, computer graphics, advertising, newspaper work, commercial art, photography, digital photography, tele-finder communications, business communications and commercial production printing. With the advanced software provided in this program, students will be encouraged to use their creative skills in the design of advertisements, product labels, identity marks (logos), brochures, presentations, etc. Students will also learn to edit and manipulate photographs as standalone work or to include in their design projects. Projects will be completed for area business and organizations providing students firsthand experience working with clients. A variety of program related equipment and processes common to the design and print industry will be included.

**Articulated credit available.**

**Up to 8 Bay College Credits available.**

### **Graphic Communications III**

**Third course of study is open to students with permission of instructor and Tech Center Principal. Students may engage in advanced study in graphic design including Adobe software. Students may also be placed in a workplace learning site.**

### **Welding Technologies I Blocks 1, 2, & 3**

**Prerequisite:** Must be a Junior or Senior

The Welding Technologies program at the Technical Education Center prepares students for entry level job skills in the Welding field or participation in a community or technical college program. The instructional format is “self-paced”, thus allowing students to progress at their own speed. Instruction is provided in safety, cutting and bending steel, shielded metal ARC welding, gas metal ARC welding (wire feed), gas tungsten ARC Welding (TIG), oxyacetylene torch cutting, project layout and construction, daily maintenance of shop and equipment and employability skills. Students are required to complete welding and cutting operations if time and skill level permit an instructor-approved project. Time in this course is split between lectures and hands-on activities including the completion of required welding operations, a required project, and a project of the student’s choosing.

**Up to 4 Bay College Credits are available**

### **Welding Technologies II Blocks 1,2, & 3**

**Prerequisite:** Must successfully complete Welding I.

Students enrolled as a second-year student in the Welding Technologies program will receive advanced training in 5 welding processes and will participate in the completion of advanced projects as approved by the instructor. Students will learn how to operate a welding robotic cell, design in 2-D CAD software to learn how to develop a file used to cut on a plasma table. In some cases, students will be encouraged to participate in advanced student competitions. Students may also qualify for a work-based learning placement depending on their skill level and availability of placements.

**Articulated credit available.**

**Up to 4 Bay College Credits are available.**

Students interested in Welding should consider the *Dickinson-Iron Technical Early College program*. For more information see page 10.

## ***Dickinson – Iron Technical Early College***

**D. I. T. E. C.**

The Dickinson-Iron Technical Early College is partnering with Bay College to offer students in the Health Occupations, Welding, Mechatronics, and Networking/Cyber Security programs in an early college experience. DITEC is a grade 11-13 program. Students will complete some of their coursework at the Technical Center in grades 11 and 12 through articulated programs while continuing their required graduation classes at their local high school. They will complete their college requirements through Bay College. For more information please contact the Technical Center at 906-779-2697 or Bay College West at 906-217-4301.