



EAST CENTRAL MIDDLE SCHOOL

TROJANS

Within this pamphlet is a comprehensive list of electives available to the students of Sunman-Dearborn Middle School. Next to the course are the grades that are permitted to take it. The grade level is based off of the year you are creating the schedule for.

Advanced classes require at least one prior class in the subject area.

Band: (6th, 7th, 8th)

Beginning (Explorer year 1) Band, Intermediate (Concert year 2) Band and the Advanced Band (year 3) are all full year classes. Students will explore creating music with their band instruments in a full ensemble setting. Each band represents typically how many years of experience each musician has, but there are exceptions! Flutes, Oboes, Bassoons, Clarinets, Saxophones, Trumpets, French Horns, Trombones, Baritones, Tubas and all Percussion instruments are utilized. Various styles (genres) of music such as; Marches, Overtures, Latin, Jazz, Classical, Rock, Ballads and much more are performed. Beginners will try all the instruments in the fall to see which instrument chooses them! Join us for a fun year of making music with your friends.

Vocal Music Choir: (6th, 7th, 8th)

Vocal Music Choir is a full year class for 6th Grade and 7th/8th Grade students. Students in Vocal Music Choir will work on building a good foundation of choir skills while working on our music. Students will sing a variety of genres including pop, folk, spiritual/gospel, and traditional choir music.

Vocal Music Show Choir: (6th, 7th, 8th)

Show Choir is a full year class for 6th Grade and 7th/8th Grade students. Students in Vocal Music Show Choir will work on building a good foundation of singing skills and using choreography and facial expressions to enhance performances. Show choir includes more popular and Broadway-style music than the traditional choir courses.

*7th/8th Grade Show Choir requires an audition for new members.

Art: (6th)

6th grade Art is a nine-week class that introduces students to the elements and principles of design through two-dimensional and three-dimensional art.

As 6th graders, the students will also learn the basics of digital art using the Adobe Photoshop Elements program.

Engineering: (6th, 7th, 8th)

Engineering is a hands-on project-based course with students getting the opportunity to learn Autodesk Inventor, 3-D modeling software, and Makerbot 3-D printing. Students will also be introduced to Westpoint Bridge Designer and RoboPro, the programming software for Fischertechnik Robotics. Students will model build and test (Bracket Race) Bottle Racer. Students are introduced to the engineering design process, applying math, science, and engineering standards to identify and design solutions to a variety of real problems. They work both individually and in collaborative teams to develop and document design solutions.

FACS: (6th, 7th, 8th)

Students in Family and Consumer Sciences will learn skills that will carry into family, community, and work settings. The student-centered, hands-on curriculum focuses on:

- ★ Career Planning and Continued Education
- ★ Financial Literacy
- ★ Nutrition and Wellness
- ★ Human Development and Relationships
- ★ Life Skills and Resource Management

Agriculture: (6th, 7th, 8th)

The nature of the Agriculture course is to provide students with an overview of various aspects of the agriculture industry. Topics to be covered in this course can include: FFA, leadership, supervised agriculture experience, plant and soil science, natural resources, animal science, agribusiness, food science, power, structure, and technical systems.

Music Technology: (6th, 7th, 8th)

Music technology is a one-semester class that will include students in grades 6-8. Students in Music Technology will learn about the impact technology has on the music industry through hands-on activities. Students will complete a project-based curriculum including creating music digitally, exploring musical genres, and careers in music incorporating technology.

Computer Science Discoveries**Course A**

Middle-level computer science builds upon the computer science standards for grade bands kindergarten to grade 2 and grade 3 to grade 5, incorporates the computer science standards for grade band grade six to grade eight, and helps to provide a seamless transition to introductory high school coursework. The standards focus on Indiana's Five Core Computer Science Concepts: Data and Information, Computing Devices and Systems, Programs and Algorithms, Networking and Communication, and Impact and Culture. Focusing on these domains offers students the opportunity to experience and apply a variety of computer science concepts in order to build a solid foundation for more advanced and specialized studies.

Vocal Music Concert Choir: (7th, 8th)

Concert Choir is a full-year class for 7th and 8th Grade students. Students in Vocal Music Concert Choir will learn more advanced music and build upon skills learned in Vocal Music Choir/Vocal Music Show Choir. Students will sing in a variety of genres including pop, folk, spiritual/gospel, traditional choir music, and foreign language music. *7th/8th Grade Concert Choir requires an audition for new members.

Advanced Art: (7th, 8th)

7/8th Art is a one-semester class that is comprised of both seventh and eighth grade students. These students continue to develop their artistic skills through the use of the elements and principles of design in a wider range of two-dimensional and three-dimensional art. Seventh and eighth-grade Art students expand on their digital art skills using the Adobe Photoshop Elements program as well. This class is based on a rotating curriculum so that students may take it both in the seventh and eighth-grade years without completing the same projects.

Advanced Engineering: (7th, 8th)

Students will build on the knowledge and skills obtained in Engineering. You must have taken Engineering prior to taking Advanced Engineering. Advanced Engineering is a hands-on project-based course with students using Autodesk Inventor, 3-D modeling software, and Makerbot 3-D printing to design and print a cell phone stand. Students will use Westpoint Bridge Designer to design, build and test a Balsa Wood Bridge. Students will use RoboPro, programming software for Fischertechnik Robotics, and use engineering kits to build simple machines. Students will use the engineering design process, applying math, science, and engineering standards to identify and design solutions to a variety of real problems.

Advanced FACS: (7th, 8th)

Students in Advanced FACS will expand upon the curriculum taught in the previous course, while being involved in different projects, labs, and activities. An emphasis will be placed on project-based learning, FCCLA project integration, and practical problem-solving in real-life situations.

Advanced Agriculture: (7th, 8th)

The nature of the Agriculture course is to provide students with an overview of various aspects of the agriculture industry. Topics to be covered in this course can include: FFA, leadership, supervised agriculture experience, plant and soil science, natural resources, animal science, agribusiness, food science, power, structure, and technical systems.

DropZone: (8th)

DropZone is a one-semester course that will provide several learning opportunities that involve real-world situations. Students in the DropZone will learn and apply multiple facets of technology to our school. Students will team with the district IT department to observe Chromebook issues and how to troubleshoot to find solutions. Students will also complete their Level 1 Google Certification, assist their peers with questions about technology, and help with classroom mini-workshops involving technology tools. These students will be technology ambassadors for their peers and have an interest in technology as a career.

PLTW: Engineering Essentials (8th)

This is a one-semester course for high school credit. In Engineering Essentials, students are introduced to the engineering design process, applying math, science, and engineering standards to identify and design solutions to a variety of real problems. They work both individually and in collaborative teams to develop and document design solutions using PLTW Engineering Notebooks and 3D modeling software.

Intro to Agriculture: (8th)

Introduction to Agriculture, Food and Natural Resources is a one-semester course that is highly recommended as a prerequisite to and as a foundation for all other agricultural classes. Through hands-on learning activities, students are encouraged to investigate areas of agriculture. Students are introduced to the following areas of agriculture: FFA, animal science, plant and soil science, food science, horticultural science, agricultural business management, natural resources, agriculture power, structure, and technology, careers in agriculture, leadership, and supervised agricultural experience. An activity and project-based approach is used along with team building to enhance the effectiveness of the student learning activities.

Spanish or Japanese or French: (8th)

This is an introductory level of the three languages offered by East Central High School. If passed, it does count as high school credit.

Introduction to 2D Art:(8th)

Introduction to Two-Dimensional Art is a course based on the Indiana Academic Standards for Visual Art. Students taking this course engage in sequential learning experiences that encompass art history, art criticism, aesthetics, production, and integrated studies and lead to the creation of portfolio quality works. Students explore the historical and

cultural background and connections; analyze, interpret, theorize, and make informed judgments about artwork and the nature of art; create two-dimensional works of art, reflect upon the outcomes, and revise their work; relate art to other disciplines and discover opportunities for integration, and incorporate literacy and presentational skills. They identify ways to utilize and support art museums, galleries, studios, and community resources.

