

Middle School Elective Course Descriptions 6th grade

Required Courses:

Physical Education
Health/Fitness

Year Long Courses:

Band
Chorus

Semester Long Courses:

Art:

Explores fundamentals of art from flat work to 3 dimensional. Students study the work of different artists during this course.

Keyboarding and Basic Word Processing:

This course is designed to teach basic keying skills, consisting of fluent manipulation of all alphabetic and numeric keys. Students will begin learning basic skills in word processing, such as formatting letters, memorandums, and emails in the business community. Emphasis is on daily use of a computer system and appropriate software to provide integrated training through learn/practice/sustain/assess plan of skill building.

Exploring Tech (STEM 6):

This STEM course is an exploratory class that provides students with an engaging and motivating introduction to science, technology, engineering, and math. It also includes the history of engineering and technology. Students will explore careers in engineering, create technical drawings, and develop life skills while solving real-world problems.

Middle School Elective Course Descriptions 7th grade

Required Courses:

Physical Education
Health/Fitness

Year Long Courses:

Band
Chorus

Semester Long Courses:**Art:**

Explores fundamentals of art from flat work to 3 dimensional. Students study the work of different artists during this course.

Keyboarding and Basic Word Processing:

This course is designed to teach basic keying skills, consisting of fluent manipulation of all alphabetic and numeric keys. Students will begin learning basic skills in word processing, such as formatting letters, memorandums, and emails in the business community. Emphasis is on daily use of a computer system and appropriate software to provide integrated training through learn/practice/sustain/assess plan of skill building.

Introduction to Office Productivity:***Prerequisite:* Keyboarding and Basic Word Processing**

This course is designed to teach advanced skills in word processing, basic skills in spreadsheets, and basic skills in multimedia presentations. Skills such as creating agendas, resumes, spreadsheets, formulas, and multimedia presentations will be taught. Emphasis is on the daily use of a computer system and appropriate software to provide integrated training through learn/practice/sustain/assess plan of skill building.

Computer Science I:

Students will use a problem-solving process to address a series of puzzles, challenges, and real-world scenarios. They will learn how computers input, output, store, and process information to help humans solve problems. Students will also learn how to create and share the content on their own web pages using HTML and CSS. They will also practice valuable programming skills such as debugging, using resources, and teamwork.

Exploring Tech Sys (Robotics 7):

Introduction to Robotics Engineering introduces students to the world of robotics. This course will introduce students to the fundamental engineering concepts related to the design, construction, and programming of a robot.

Middle School Elective Course Descriptions 8th grade

Required Courses:

Physical Education
Health/Fitness

Year Long Courses:

Band
Chorus

Semester Long Courses:**Art:**

Explores fundamentals of art from flat work to 3 dimensional. Students study the work of different artists during this course.

Computer Science I:

Students will use a problem-solving process to address a series of puzzles, challenges, and real-world scenarios. They will learn how computers input, output, store, and process information to help humans solve problems. Students will also learn how to create and share the content on their own web pages using HTML and CSS. They will also practice valuable programming skills such as debugging, using resources, and teamwork.

Computer Science II:***Prerequisite:* Computer Science I**

Students will build on their coding experience as they program animations, interactive art, and games in Game Lab. The course starts off with simple shapes and builds up to more sophisticated sprite-based games, using the same programming concepts and the design process computer scientists use daily. Students will also investigate the broader social impacts of computing. Through a series of design challenges, they will learn how to better understand the needs of others while developing a solution to a problem.

Exploring Engineering and Design (Manufacturing 8):

The manufacturing course will explore manufacturing systems and processes. Students will use industry standard 3-D design software to create parts, learn about rapid prototyping, 3-D printing, and concurrent engineering.