

Whitewater Middle Electives 2022-2023

Course	Description	Duration
Art	Students refine their application of the Elements of Art and Principles of Design to create personal art that communicates ideas through drawing, painting, printmaking, contemporary crafts and sculptural design.	Semester (Available for 6th, 7th, 8th)
Band	This course provides beginning class instruction in playing a musical instrument. Much attention is focused on counting rhythm, reading notes on the musical staff, and producing a great sound on the instrument. Level I performances for Band are achieved. Band instruments may be leased or purchased from local music dealers.	Year Long (Available for 6th, 7th, 8th)
General Music	Students learn about different genres of music and the importance of music to various cultures throughout history. Genres include jazz, classical, musicals (Broadway), and current music trends.	Semester (Available for 8th)
Orchestra	This course provides beginning instruction in playing violin, viola, cello, or bass. Much attention is focused on counting rhythm, reading notes on the musical staff, and producing a great sound on the instrument. Level I performance standards for orchestra are achieved. Orchestra instruments may be leased or purchased from local music dealers.	Year Long (Available for 6th, 7th, 8th)
PLTW: Automation and Robotics	Students learn about the history and impact of automation and robotics as they explore mechanical systems, energy transfer, machine automation, and computer control systems. In addition, students apply the concepts of physics, chemistry, and nanotechnology to activities and projects,	Semester (Available for 7th)
PLTW: Carpentry (Foundations of Construction)	This is a year long course covering the basics of construction. In semester 1, students will learn how to apply green concepts to the fields of architecture and construction. They explore dimension-ing, measuring, and architectural sustainability. In semester 2, students will apply this learning through hands on construction projects.	Year Long (Available for 8th)
Computer Science Discoveries I (CSDI)	Computer Science Discoveries covers topics such as programming and HTML/CSS using Code.org curriculum. Students will be empowered to create authentic artifacts and engage with computer science as a medium for creativity, communication, problem solving, and fun.	Semester (Available for 6th, 7th, 8th)

Computer Science Discoveries II (CSDII) <u>(CSD 1 is a prerequisite)</u>	Computer Science Discoveries covers topics such as programming, JavaScript languages using Code.org curriculum and software and web development. Students will learn how to create games. Students will be empowered to create authentic artifacts and engage with computer science as a medium for creativity, communication, problem solving, and fun. CSDI is a prerequisite.	Semester (Available for 7th, 8th)
Computer Science Discoveries III (CSD III) <u>(CSD 2 is a prerequisite; students can take CSD2 & CSD 3 in the same year)</u>	Computer Science Discoveries covers topics such as programming and software and web development. Students will learn how to create a app to crowd-source and analyze data on a topic of their interest. Students will be empowered to create authentic artifacts and engage with computer science as a medium for creativity, communication, problem solving, and fun. CSDII is a prerequisite.	Semester (Available for 8th)
PLTW: Design and Modeling	Intro to Engineering provides students opportunities to apply the design process to creatively solve problems. Students learn about basic circuitry, and use what they've learned to design and model alternative energy sources, as well as evaluate options for reducing energy consumption.	Semester (Available for 6th)
PLTW: Energy and the Environment	In the Energy and Environment course students focus on the importance of understanding various forms of energy, explore sustainable solutions to our energy needs and investigate the impact of energy on our lives and the world.	Semester (Available for 6th)
PLTW: Green Architecture	In this unit, students learn how to apply green concepts to the fields of architecture and construction. They explore dimensioning, measuring, and architectural sustainability using Autodesk's 3D architectural design software.	Semester (Available for 7th, 8th)
PLTW: Science of Technology	Students discover the principles of this fast growing field by analyzing the impact of technology of yesterday, today, and the future	Semester (Available for 7th)
PLTW: Space & Flight	Students explore the science behind aeronautics and use their knowledge to design, build, and test an airfoil. In addition, students learn how to apply green concepts to the fields of architecture and construction.	Semester (Available for 6th, 8th)
Middle School Spanish	Introduction to the Spanish language focused on basic communication and cultural concepts.	Semester (Available for 6th)
Spanish I Part A .5 High School Credit	Spanish I part A is the first half of a two-year middle school sequence for high school credit. Successful completion of this two year sequence will be reflected as Spanish I credit on the student's high school transcript, and counts towards meeting the UNC system entrance requirements.	Year Long (Available for 7th)

<p>Spanish I Part B <u>(Spanish I Part A is a prerequisite)</u> .5 High School Credit</p>	<p>Spanish I part B is the second half of a two-year middle school sequence for high school credit. Successful completion of this two year sequence will be reflected as Spanish I credit on the student's high school transcript, and counts towards meeting the UNC system entrance requirements. Prerequisite: Successful completion of Spanish I part A</p>	<p>Year Long (Available for 8th)</p>
<p>Spanish for Native Speakers I Part A .5 High School Credit</p>	<p>Spanish for Native Speakers I Part A is the first half of a two-year middle school world language sequence for high school credit. It is designed to enhance reading and writing skills of students whose heritage language is Spanish.</p>	<p>Year Long (Available for 7th)</p>
<p>Spanish for Native Speakers I Part B <u>(Spanish for Native Speakers Part A is a prerequisite)</u> .5 High School Credit</p>	<p>Spanish for Native Speakers I Part B is the second half of a two-year middle school world language sequence. It is designed to enhance reading and writing skills of students whose primary language is Spanish. This course also provides Spanish speakers the opportunity to read and discuss various genres of literary works.</p>	<p>Year Long (Available for 8th)</p>