

Grade 8 Elective Offerings 2020-2021



LAST NAME _____ FIRST NAME _____ STUDENT ID # _____

ENGLISH/LANGUAGE ARTS: Indicate the expected ELA placement. Note: Records will be used to confirm placement.

Circle One: English Language Arts 8 Advanced English Language Arts 8

MATH: Indicate the expected math placement. Note: Records will be used to confirm placement.

Circle One: Math 8 HS Math 1 (prerequisite: Math 7 Plus or equivalent) Other: _____

HEALTH/PE: Indicate your preference of one semester or year-long.

Circle One: Semester Year-long

ELECTIVES: Choose 3 Primary electives with a "P" AND 3 Alternate electives with an "A"

	<p>Digital Literacy & Keyboarding and Basic Word Processing These combined CTE courses are designed to allow students to learn the touch method of keyboarding, digital literacy and computer knowledge, and basic word processing and document formatting skills. English language arts and mathematics are reinforced. Future Business Leaders of America (FBLA) competitive events, community service, and leadership activities provide the opportunity to apply essential standards and workplace readiness skills through authentic experiences.</p>
	<p>Office Productivity Applications (Prerequisite: Digital Literacy & Keyboarding) This middle school course is composed of instructional modules designed to allow students to learn the touch method of keyboarding, digital literacy and computer knowledge, and basic word processing and document formatting skills.</p>
	<p>*Exploring Computer Science (Prerequisite: Digital Literacy & Keyboarding) is an introductory computer science course that empowers students to create authentic artifacts and engage with computer science as a medium for creativity, communication, problem solving, and fun. This course covers topics such as programming, physical computing, HTML/CSS, and data. The course inspires students as they build their own websites, apps, games, and physical computing devices</p>
	<p>Exploring Nutrition and Wellness /Interpersonal Relationships & Childcare: These combined CTE courses explore basic Family and Consumer Sciences foundations and skill sets including: interpersonal relationships, nutrition and wellness, child development and education. Students are eligible to receive the American Red Cross® Babysitter certification</p>
	<p>Exploring Apparel & Interior Design/ Understanding Personal Finance and Hospitality This middle school course is composed of instructional modules designed to provide instruction on basic Family and Consumer Sciences foundation and skills. The following modules are included: personal finance and resource management and apparel and interior design.</p>
	<p>Exploring Engineering & Design/Invention & Innovation: This middle school course focuses on applying the design process in the invention or innovation of a new product, process, or system. Through engaging activities and hands-on projects, students focus on understanding how criteria, constraints, and processes affect designs. Emphasis is placed on brainstorming, visualizing, modeling, testing, and refining designs. Students develop skills in researching information, communicating design information, and reporting results.</p>
	<p>*Design & Creativity/Technology & Society (Prerequisite: Engineering & Design/Invention and Innovation)</p>
	<p>Magnet Bits & Bytes Through hands-on, on-your-feet kinesthetic activities and investigations, students will learn the foundations of computer science and computational thinking, including non-linear problem solving, algorithms, artificial intelligence, image types, how humans interface with computers, and more. This course will incorporate cooperative group work and project-based learning to enhance the learning experience.</p>
	<p>Magnet Emerging Technology: This course will immerse you in the study of your choice of emerging technologies, with your first task being the discovery of the definition of exactly what an emergent technology is! This elective will also provide you the basic knowledge to understand on what platform all technologies are built. More importantly, this class will help you develop skills that you will need to be able to keep up with a rapidly changing technological world!</p>
	<p>Magnet Mechatronics I: Students will learn the fundamentals of robot operation and programming. This will include the study of basic electrical concepts and components, sensors that provide data to robots, and programming techniques to control robot behavior.</p>

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	<p>*Magnet Mechatronics II (prerequisite: Magnet Mechatronics I): Students will expand their knowledge of electronic circuits and devices. They will learn about the Arduino microcontroller, Raspberry Pi mini-computer, and how these devices are used in robots, smart devices, and other applications. Students will gain experience with different software that can be used with these devices. Students will also be introduced to the Internet of Things.</p>
	<p>*Magnet Mechatronics III (prerequisite: Magnet Mechatronics II): Students will explore ways to use the Arduino microcontroller and Raspberry Pi mini-computer in more complex projects. Students will be introduced to biomedical engineering and drone technology.</p>
	<p>*Peer Helpers (Application Required) This hands-on course allows students to work with peers with special needs in a self-contained ID-Moderate and ID Severe class at RCMMS. Peer helpers will assist the students to make progress on their academic, social and vocational skills under the guidance and supervision of the classroom teaching professionals in the special education classroom and school environment.</p>
	<p>Animal Science This introduction to the animal kingdom emphasizes hands-on learning through a variety of classroom and outdoor experiences. After students learn how to care for captive animals in general, they pick a classroom animal to hold, study and complete a research project. Students then study vertebrate classes. Outdoor activities include dip netting, wildlife observations, and a turtle mark-and-recapture study.</p>
	<p>*Advanced Animal Science (prerequisite: Animal Science) This course continues the study of the animal kingdom with an emphasis on hands-on learning through a variety of classroom and outdoor experiences.</p>
	<p>Science Olympiad: This course enables students to apply science and mathematics concepts and principles in innovative situations that enhance problem-solving skills. Independent and group projects are completed under the guidelines of the National Science Olympiad. Students may have the opportunity to compete in local, regional, state, and national Science Olympiads</p>
	<p>Spanish Beginning Less Than 1 Year: This course begins the study of the Spanish language and culture. Major topics include greetings, conversation questions, telling time, classroom objects, asking for help, the parts of the body, infinitive verbs, expressing likes and dislikes, definite and indefinite articles, adjectives, subject pronouns, the present tense of –ar verbs, and the plurals of nouns and articles.</p>
	<p>*Spanish 1 MS for HS Credit (year-long course) (prerequisite: Spanish Beginning less than 1 year AND Spanish Beginning 1 Year): This course continues the study of the Spanish language and culture, refining grammatical and vocabulary topics. Major topics include the rooms in a house, making comparisons, the superlative, stem changing verbs, affirmative commands, the present progressive tense, clothing, demonstrative adjectives, and the preterit of verbs.</p>
	<p>*Advanced Band (Prerequisite: Beginning Band & Intermediate Band) Instrument Preference: _____</p>
	<p>Visual Arts Exploratory: This course introduces students to the elements of art through a variety of media that may include: drawing, painting, printmaking, mixed media, pottery, and weaving. Application of these elements to the students' own original artwork is the major emphasis while being introduced to art history and critical analysis of master work as well as their own.</p>
	<p>Visual Composition: Students will engage in deep study of the elements and principles of art centered on the curriculum set forth in the North Carolina Essential Standards for Visual Art. Two and three-dimensional techniques will be taught using a variety of media. Students explore various cultures, art history and learn to think and write critically about master work as well as their own</p>
	<p>Drawing: Students are taught drawing techniques using various media. They work with line, value, and basic perspective. In addition, students will learn to think and write critically about master work as well as their own.</p>
	<p>Pottery/Sculpture: Students will create their own work with a wide variety of media such as paper, wood, clay, plaster, paper mâché, or fabric. Students explore various cultures, art history and learn to think and write critically about master work as well as their own</p>
	<p>Weaving Crafts: Off-the-loom weaving is the major emphasis of this course. Crafts may include batik, tie-dye, bas-relief clay, and soft sculpture. Students explore various cultures, art history and learn to think and write critically about master work as well as their own</p>

** Advanced course: Students must pass the previous course/prerequisite indicated before enrolling.*

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