

Reedy Creek Magnet Middle School – Center for the Digital Sciences

ELECTIVE COURSE OPTIONS FOR 6TH GRADE STUDENTS 2021-2022

1. Decide between YearLong or SemesterLong Health and PE.
2. Pick Three Primary and Three DIFFERENT alternate choices. (semester long unless indicated)
3. Enter as your current counselor has suggested!

<u>COURSE NAME</u>	<u>COURSE DESCRIPTION</u>
Animal Science	This introduction to the animal kingdom emphasizes hands-on learning through a variety of classroom & 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.
Beginning Spanish Less Than One 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. Students who successfully complete this course should continue the Spanish curriculum series for high school credit by taking Intermediate Spanish.
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. <i>Prerequisite to Introduction to Office Productivity.</i>
Exploring Engineering & Design 1	This CTE 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. Technology Student Association (TSA) competitive events, community service, and leadership activities provide the opportunity to apply essential standards and workplace readiness skills through authentic experiences. This would include research on inventions and innovations.
Exploring Nutrition and Wellness & Exploring 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. Family, Career and Community Leaders of America (FCCLA) competitive events, community service and leadership activities provide the opportunity to apply essential standards and workplace readiness through authentic experiences.

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Magnet Bits & Bytes	Through hands-on 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.
Magnet Robotics & 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.
Olympics of Science and Math	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.
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 art work is the major emphasis while being introduced to art history and critical analysis of master work as well as their own.
Yearlong Beginning Band	This yearlong course emphasis is on the acquisition of basic musical skills as students learn to play the flute, clarinet, trumpet, or trombone. Band classes prepare several concert compositions that are performed for an audience. Students should anticipate some after-school practices and evening performances (such as: Winter Concert, Feeder School Visits, Spring Concert, etc.). <i>Prerequisite to Intermediate Band and Advanced Band. This course is a year-long commitment. Students who request this class will be scheduled for a class with the instrument indicated.</i>