Grade 8 Elective Offerings 2021-2022

Reedy Creek Middle School
Center for the Digital Sciences Magnet Middle School

LAST NAME_____**FIRST NAME**_____ **STUDENT ID #**_____

Increase your chances of getting the electives you want by completing this simple form:

1) Indicate if you prefer to take the Health and Physical Education Course requirement for one semester or for the entire school year (consider scheduling space remaining for other electives).
2) Indicate 3 "P" Primary electives and 3 "A" Alternates from this list.
3) Use this completed handout as a guide to register for your classes.

Circle One: *Year* *Semester*	Health & Physical Education	This course is required for all students. Students have the option to request Year-long PE (2 semester-long classes remain open for electives) or semester-long PE (3 semester long classes remain open for electives). Students are required to indicate 3 "P"s and 3 "A"s no matter which Health & PE they choose.
	CORE ELECTIVES	
	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.	
	*Animal Science Advanced (**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.	
	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 Olympiad competitions.	
	WORLD LANGUAGE ELECTIVES	
	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.	
	*Spanish Beginning 1 Year (**Prerequisite: Spanish Beginning less than 1 Year)** This course is the first in a multi-course sequence for high school Level I credit. Students will learn the foundations of vocabulary and structures in order to communicate in simple, memorized sentences related to basic necessary skills in Spanish. Classes are conducted primarily in Spanish with a strong focus on comprehensible input at a level appropriate for novice learners. Activities focus on students' abilities to perform in the interpersonal, interpretive, and presentational modes of communication.	
	*Spanish I 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.	
	ARTS EDUCATION ELECTIVES	

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

Decisions regarding elective offerings are subject to change based on student interest & staff availability. Students whose teacher(s), assessments and/or individual plan indicate the need for extra support may be placed in an intervention class, such as Curriculum Assistance, ESL, math or reading intervention courses, instead of electives. *2/25/2021*

Grade 8 Elective Offerings 2021-2022

Reedy Creek Middle School
Center for the Digital Sciences Magnet Middle School

	*Advanced Band (year-long course) (**Prerequisites: Beginning & Intermediate Band)** Instrument Preference: _____
	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.
	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 about their own.
	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 about their own.
	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 about their own.
	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 about their own.

CAREER AND TECHNICAL EDUCATION ELECTIVES	
CTE Courses are two 9-week courses that are combined to make one semester elective course.	
	Digital Literacy (combined with Keyboarding and Basic Word Processing) These combined CTE courses are designed to allow students to learn the touch method of keyboarding, digital literacy, computer knowledge, 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.
	*Introduction to Office Productivity (combined with Office Productivity Applications) **(Prerequisite: Digital Literacy)** These middle school courses are composed of instructional modules designed to allow students to learn the touch method of keyboarding, digital literacy, computer knowledge, basic word processing and document formatting skills.
	Computer Science Discoveries I (combined with Computer Science Discoveries II) combine to form a 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

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

Decisions regarding elective offerings are subject to change based on student interest & staff availability. Students whose teacher(s), assessments and/or individual plan indicate the need for extra support may be placed in an intervention class, such as Curriculum Assistance, ESL, math or reading intervention courses, instead of electives. 2/25/2021

Grade 8 Elective Offerings 2021-2022

Reedy Creek Middle School
Center for the Digital Sciences Magnet Middle School

	Exploring Nutrition and Wellness (combined with 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	
	Exploring Apparel & Interior Design (combined with Exploring 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.	
	Exploring Engineering and Design (combined with Invention and Innovation) These middle school courses focus 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.	
	*Design and Creativity (combined with Technology and Society) (**Prerequisite: Exploring Engineering and Design)** In these middle school courses emphasis is placed on brainstorming, visualizing, modeling, testing, and refining designs. Students develop skills in researching information, communicating design information, and reporting results. Activities are structured to integrate physical and social sciences, mathematics, English language arts, and art.	
MAGNET ELECTIVES		
	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.
	Magnet Emerging Technologies	Technology has reached a point where it is changing almost moment by moment. At any given time, a new technology emerges. 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!
	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.
	*Magnet Mechatronics II	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. **(Prerequisite: Mechatronics I)**
	*Magnet Mechatronics III	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. **(Prerequisite: Mechatronics II)**

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

Decisions regarding elective offerings are subject to change based on student interest & staff availability. Students whose teacher(s), assessments and/or individual plan indicate the need for extra support may be placed in an intervention class, such as Curriculum Assistance, ESL, math or reading intervention courses, instead of electives. 2/25/2021