

9th GRADE REGISTRATION

2021-2022

The Davis County School District does not discriminate on the basis of sex or race in the educational programs or activities, which it operates, as required by Federal Regulation, Title IX.

ENGLISH

English 9 (Full Year): English 9 students will continue to develop skills in reading, writing, listening, and speaking through a variety of activities. Usage, mechanics, vocabulary, and composition practice will be taught in context with literature-based units. Work not completed in class may become homework. Reading at least one book per term will be required outside of class.

Honors English 9 (Full Year): Honors English 9 students will have the opportunity to practice higher level thinking, reading, and writing skills. The course will include exposure to multiple genres, argumentative writing strategies, research techniques, and oral presentation. Honors students are expected to be independent learners, read above ninth grade level, and have superior writing ability. Students can expect rapid movements through course materials, which will often require homework in addition to the required reading. Students will be required to read 3-4 books outside of class. This includes both their independent reading and the class novel, which they may be reading at the same time.

SOCIAL STUDIES

World Geography (Semester or Full Year): Over the course of the year, students will study each of the world's physical and cultural regions and how they are interconnected. In addition to learning place-name geography (countries, cities, and physical features), they will learn about cultural elements that make each region unique. Map literacy will be emphasized along with global connections.

AP Human Geography (Full Year): AP Geography will serve as the honors level geography class for 9th graders. The ultimate goal for students in the class will be to prepare to take and pass the Advanced Placement Geography Test; however, students may opt to take the course without taking the exam. In addition to the regional study, AP students will also study how issues such as population, economics, government systems, conflict, and movement patterns affect us on both a global and local scale. This is a rigorous course and will require above average reading and writing skills.

MATHEMATICS

Secondary Math I (Full Year): This course will focus on developing a solid understanding of function and use that understanding to explore many examples of functions, including sequences. It will deepen and extend understanding of linear relationships and connect that understanding to exponential functions. It will build on prior experiences with data to develop formal methods of data analysis. Students will use properties and theorems involving congruent figures to deepen and extend understanding of geometric knowledge. Algebraic and geometric ideas will be tied together.

Co-Requisite Supplemental Math (Full Year): Co-Requisite Supplemental Math is intended to increase student understanding and achievement by increasing time, intensity and access to high-cognitive rigor for on-grade level core standards. This course focuses on pre-teaching on-grade level material before students learn the curriculum in the regular math class and secondarily focuses on reteaching on-grade level curriculum. Opportunities that teach prerequisite skills are directly tied to and taught in context of on-grade level content. Students can expect to be exposed to frequent and regular use of task-based learning in order to meet these objectives as well as regular and intentional interactions with the teaching and learning Mathematical Practices.

Secondary Math I Honors (Full Year): This course will cover all of the concepts in the Secondary Mathematics I course. Concepts will be explored in greater depth with increased use of contextual situations. In addition, it will include concepts dealing with vectors and quantities of vectors and matrix operations and their applications. This course will include elements that will prepare students to take calculus in high school. This course will have increased rigor and advanced content that will challenge the minds of high ability students.

Secondary Math II Honors (Full Year): This course is a deep analysis of functions, along with statistics, congruence, proof and connecting geometry and algebra through coordinates. Concepts will be explored in greater depth with increased use of contextual situations. In addition, they will study complex numbers and their operations on the complex plane, more in depth study of matrices, parabolas and ellipses, rules of probability and conditional probability, solve systems of equations, prove and apply trigonometric identities, express conic sections algebraically, and solve problems using volume measurements.

SCIENCE

Earth Systems (Full Year): Students will learn about a diverse range of topics, including Astronomy, Plate Tectonics, Oceanography, Meteorology, and Natural Disasters. These topics all focus on the interconnectedness of all Earth systems and the Earth's place in the solar system and the Milky Way galaxy. The course has a laboratory component that encourages hands-on learning and requires analytical thinking. Technology has been integrated into all aspects of the course, allowing students to receive immediate feedback on assessments and to learn independently at their own pace.

Biology (Full Year): Biology covers a wide range of biology content including biochemistry, cells, cell division, genetics, DNA, evolution, ecology, and comparative anatomy. Students enrolled in this class must possess advanced reading and writing skills. The class will move at a fast pace, including a high volume of class notes and independent study by the student. There will be a significant laboratory focus, which will require hands-on work by the student. The labs will encourage analytical thinking and scientific reasoning skills.

Engineering Principles 1 and 2 (Full Year): Engineering Principles is a project and experience based course designed to introduce students to the various fields of engineering. Students will gain an understanding of what engineers do and how their courses in high school are important preparation for entering the field of engineering. Students will be introduced to the engineering design cycle, as well as each of seven fields of engineering (Biomedical, Chemical, Civil, Computer Science, Electrical, Materials, and Mechanical). Within each field of study students will explore career opportunities, how the field of engineering affects and benefits daily life and complete projects/activities that will solidify the students understanding of the field, as well as the underlying math and science involved. Emphasis is placed on the need for engineers to have good written and oral communication skills.

WORLD LANGUAGES

DLI French 5 (Full Year): The objectives of the DLI French 4 Honors class are to actively prepare students to pass the French AP exam which they will take at the end of the year. In continuity with French 3H and French 4H, the class develops students' ability to communicate (speak, listen, read and write) in French in an academic setting and to discuss, describe, compare and debate world and social topics and issues.

DLI Chinese 5 (Full Year): the objectives of the DLI Chinese 5 class are to actively prepare students to understand the requirements of the AP exam and get the best score possible on it. The AP exam will be taken in May. In continuity with Chinese 3 and 4, the class's purpose is to develop students' ability to communicate with accuracy and in details (speaking, listening, reading and writing), and to discuss, describe, compare and debate world and social topics and issues.

French Culture, History & Media (must be enrolled in French Immersion Program) Semester:

French Culture and Media is designed as a single semester companion course to French DLI. Students will study the related 6 thematic units of DLI and in addition incorporate French culture and media using a wide range of technological resources. This course has strong elements of Pre-Advanced Placement methodology and is considered preparatory to the AP French Course that is offered in 9th grade.

Spanish 1 (Full Year): What do you want to do when you grow up? No matter what it is, knowing a second language can be very helpful - especially if that language is Spanish. Join us as we embark on a great adventure, learning about the language and culture of the Spanish-speaking world. Hear it, speak it, read it and write it in a supportive environment using many different methods and activities. ¡Viva el español!

Spanish 2 (Full Year): Second year Spanish takes up where the first year left off. By the end of this year students should be able to carry on basic conversations on several topics, building on their knowledge from the previous year. Students will be able to show off skills in creative ways using stories, games, and activities. Students will continue to broaden cultural horizons as they learn about the people and places where Spanish is spoken. Students are also eligible to participate in the BYU Language Fair this year. ¡Vamos!

Spanish 3 (Full Year): Students have put in all the effort to learn the basics. They have realized the importance of knowing a second language. Spanish III, they will be refining speaking skills and learning the fine points of the language structure. Students will delve into some art and literature along with the language. There may be an opportunity to attend the festivities at the BYU Foreign Language Fair (a nice pay-off for all your hard work). We may act out plays, write our autobiographies, or learn to do the salsa. ¡Fantástico!

MUSIC/FINE ARTS

Band 1 Percussion (Full Year): Percussion is beginning instruction in playing percussion instruments. Emphasis is on rhythm and note reading. No drum set playing is taught. **Students must have one or more years of** successful piano lessons to be considered for the percussion section. Interested students should contact the Band Director in the spring.

Band 1 Brass (Full Year): This class is for all students who are interested in learning to play a brass instrument. No musical experience is necessary; just bring a desire to learn an instrument. Beginning brass incorporates the following instruments: trumpet, trombone, French horn, baritone, and tuba.

Most parents obtain an instrument by renting with the option to buy from a music store. In the past, the cost has

been approximately \$15.00 per month. A limited number of larger band instruments are sometimes available through the school for rent. The school has French horns, baritones, trombones and tubas to rent for \$95.00 for the year.

Band 1 Woodwinds (Full Year): This class is for all students who are interested in learning to play a woodwind instrument. No musical experience is necessary; just bring a desire to learn an instrument. Beginning woodwinds incorporates the following instruments: flute, clarinet, and oboe. Those who desire to play piccolo must first play the flute for at least two years. Those who desire to play saxophone must first play the clarinet.

Most parents obtain an instrument by renting with the option to buy from a music store. In the past, the cost has been approximately \$15.00 per month. A limited number of larger band instruments are sometimes available through the school for rent.

Band 2 (Full Year): This course is for band students who have played an instrument in Beginning Band for one year and have demonstrated the ability to play their instrument at an intermediate level. Students must have approval of band instructor.

Band 3 (Full Year): This course is for outstanding musicians who have excelled musically and who are technically proficient on their instrument. Students must have approval of band instructor.

Choir 3 - Concert Choir (Full Year): This course is for those students that have demonstrated ability in choral music. Students will continue to learn vocal techniques that will enhance their singing ability. Performances outside of regular school time are required. This class is open to all 9th grade students.

Orchestra 3 (Full Year): Open to all 9th Grade Orchestra Students who have previously enrolled in MPJ 7th and 8th Grade Orchestra or by audition. This class focuses on advanced shifting, vibrato, music theory, and all major and minor two octave scales. Opportunities for participation in Solo/Ensemble, District, and State Orchestra Festival will be available. School performances include, four concerts, Winter Assembly, Panther Preview performance, and 9th Grade Recognition night.

Theater 1: In this class, students will develop basic techniques of acting and gain a deeper appreciation of theatre as an art form. Students will explore various periods of theatre history through observation and performance. Students will be required to work in groups. The majority of the grade for this class is based on in-class participation and attendance.

3D Design (Semester): This course is an introductory course designed to expose the student to basic processes or techniques relating to hand-built, mold and wheel thrown ceramic art, graphic design, mask making, book making and glass etching. A basic understanding of the relevant aesthetic concepts and principles will be built into every lesson.

Painting (Semester): Enrollment is limited. Painting is an extension of the Foundation I and II courses and contains instruction on techniques and skills relating to the use of watercolor and/or acrylic paint. Painting may also include mixed media, E.G. collage and various combinations of painting materials. An understanding of the relevant aesthetic concepts and principles will be built into every lesson. Painting is an advanced course.

CAREER and TECHNICAL EDUCATION

Child Development (Semester): Students will learn the aspects of child growth and development. Learn positive guidance techniques, and child-related issues. Students will have the opportunity to participate in learning activities, and developmentally appropriate experiences for children. As a project, students will have the chance to take home an electronic baby and experience caring for a young infant.

There is a lab fee associated with this class.

Exploring Computer Science (Semester): Exploring Computer Science is designed to introduce students to the breadth of the field of computer science through an exploration of engaging and accessible topics. Rather than focusing the entire course on learning particular software tools or programming languages, the course is designed to focus the conceptual ideas of computing and help students understand why certain tools or languages might be utilized to solve particular problems. The goal of Exploring Computer Science is to develop in students the computational thinking practices of algorithm development, problem solving and programming within the context of problems that are relevant to the lives of today's students. Students will also be introduced to topics such as interface design, limits of computers and societal and ethical issues.

Food and Nutrition Science (Semester): This course is designed for students who are interested in understanding the principles of nutrition and in maintaining a healthy lifestyle. Attention will be given to the selection and preparation of food and personal health and well-being. A state skills test will be given at the end of the semester. You will receive one semester credit towards high school graduation and Career and Technology Education. **There is a Lab fee attached to this class.**

Electrical Engineering (Semester): This is a cutting-edge program that addresses the interest and energy of middle school students while incorporating national standards in mathematics, science, and technology. Engineering has an "activity-oriented" curriculum that shows students how technology is used to solve everyday problems. The two units we will cover are:

Electrons: Through hands-on projects, students explore the science of electricity, the movement of atoms, circuit design, and sensing devices. The unit includes, up to, 28 basic electrical circuits like: photocells, alarms, timing, LED's, electronic metronome, railroad lights, electronic police siren and electronic organ.

Micro controllers (Arduinos): are open-source prototyping platform based on easy-to-use hardware and software. Arduino boards are able to read inputs - lights on a sensor, a finger on a button, or a Twitter message - and turn it into an output - activating a motor, turning on an LED, or publishing something online. The unit includes hands on projects like: Spaceship Interface, Color Mixing Lamp, Light Theremin, Instrument, Hourglass, Knock Lock, Tweak the Arduino Logo and Hacking Button.

The emphasis on this class is on reading schematics, basic electronic components, and coding. **There is a lab fee attached to this class.**

Mechanical Engineering (Semester): This is a cutting-edge program that addresses the interest and energy of middle school students while incorporating national standards in mathematics, science, and technology. Engineering has an "activity-oriented" curriculum that shows students how technology is used to solve everyday problems. The two units we will cover are:

Gears and Automation: Students trace the history and development of automation and robotics. Students will learn about gears, levers, machine automation and computer-controlled systems. It includes hands on projects like simple motors, soldering a circuit board, simple levers and pulleys and automation of robots.

Robotic: Robotics is a platform designed for learning for students. Connect any combination of up to 12 motors and sensors to the **IQ Brain**. Built in Smart Motors- quadrature encoders are built into all motors, creating interactive objects or environments.

The emphasis of this class is on gears, transfer of energy, automation, and coding. Students will build robots and control them autonomously through a series of challenges. **There is a lab fee attached to this class.**

Interior Design (Semester): This course explores aspects of decorative and structural interior design, including furniture arrangement basics, floor plan rendering, color schemes, and area planning to scale. Design presentation projects include incorporation of the elements and principles of design through: color and lighting effects, texture and pattern through sample fabrics and flooring materials, and professional experience through presentation techniques. **There is a lab fee attached to this class.**

Sewing Construction and Textiles 1 (Semester): This course introduces students to basic apparel design and construction skills. These skills prepare students for the exciting global apparel industry and entrepreneurial opportunities. Students will sew apparel and accessory projects. This course will strengthen comprehension of concepts and standards outlined in Sciences, Technology, Engineering and Math (STEM) education. **There is a lab fee attached to this class.**

Digital Business Applications (Semester): Digital Business Applications is designed around practical experience relating to the world-wide reach of business. This course provides practical experience in professionalism using various forms of presentation skills such as speaking, podcasting and digital portfolios. Concepts include the digital experience, digital communications, digital media, and career choice exploration. **This course fulfills the Digital Studies graduation requirement for High School.**

Teaching as a Profession 1: This class will give students opportunities to explore careers in education. This is a CTE Education Pathway course for 9-12 graders. During this course, students will learn about human development, the history of education, changes in our education system & the financial aspects, what you can expect from a career in education, how to behave professionally, and the types of careers that are available within the industry
Students will:

- Gain an understanding of why & how our education system functions.
- Have opportunities to role play being a classroom teacher.
- Observe others' teaching and learn to evaluate performances effectively.

ELECTIVES

Creative Writing (Semester): Students will focus on the art of storytelling, for both fiction and non-fiction, in several genres. Principles of plot structure, characterization, voice, dialogue, description, and point of view will be studied and practiced, with the end goal of producing polished prose, poetry, and dramatic writing. At the end of the course, students should have the basic skills needed to take ideas and turn them into written work. This course is designed for the student who enjoys writing and composing and is looking to improve their ability to bring their ideas to life on paper. This course is not designed to remediate basic skills in grammar and spelling.

Intro to Health Science: This class is taught at South Davis Junior High. Parents will need to provide the transportation to and from the class. It is a year-long class that counts toward high school health credit. This is a foundational course that is designed to create an awareness of career possibilities in health care and inform students of the educational options available for health science and health technology programs. This is a wonderful course to prepare for all other Health Science Career classes.

Introduction to Python 1: There are many coding languages being used by computer coders but one of the most used, and growing in popularity, is Python.

This course will take you through the basics of Python 3 and help you build your skills to the point where you will be able to create simple games and work on and edit more complex games through the use of Python coding language. Students will become fluent in the understanding and use of basic Python syntax including learning how to create and use variables, define and use functions, while-true loops, if/else statements, multipliers and more. We will create some of our own sprites (game characters) and use these in Python coded games of student's creation.

If you have done some work in Python already, great, but no previous coding experience is necessary for this course.

Journalism 1 (Semester): Journalism 1 gives students the chance to explore the nature and ethics of news. Students will learn to identify newsworthy topics, conduct interviews, and write stories based on real school and community events. Students in this class will need to be self-motivated and creative. They must be prepared to work closely and productively on their own and with others. They must be prepared to do some work outside of class and should enjoy writing.

Journalism 2 (Semester- Journalism 1 pre-requisite): Journalism 2 allows students to apply their reporting skills in a broadcast setting. Students will gather video footage, prepare scripts, and act as news anchors in a school recording studio. Students in this class will need to be self-motivated and creative. They must be prepared to work closely and productively on their own and with others. They must be prepared to do some work outside of class and should enjoy public speaking and writing.

Leaders of the World (Semester): In this course students will study leaders of countries, societies, and religious organizations throughout history. Students will also examine the dynamics of power and authority and how leaders have risen to positions of influence throughout the world.

LIA Peer Leadership- Latinos in Action (Semester or Full Year): The mission of the Latinos in Action class is to empower our Latino youth through culture, service, leadership and excellent education with the sole purpose of graduating from college. This class trains students as paraprofessionals who visit and tutor local elementary school children. LIA students also learn and improve their leadership skills through their roles with LIA. LIA students organize activities and initiate service projects together. **In order to participate in the Latinos in Action class, students must maintain a GPA of 2.5 or higher and submit an application.**

Mock Trial (Semester): In this course students have the chance to be involved in a simulated courtroom experience. They will be provided facts, signed affidavits, and other legal information regarding court cases. Students play roles of witnesses, attorneys, clerks, and bailiffs in courtrooms. Students prepare to participate in a state competition.

<https://www.lawrelatededucation.org/programs/mock-trials>

National Academic League: The National Academic League is a class that combines competitiveness, strategy, teamwork, and cooperation in a group effort focusing on learning problem solving skills, critical thinking, and scholarship. In this class, students will cover game strategies as well as content from Math,

English, Science, History, Geography, and Current Events. The skills used in a National Academic League competition have a lot of applications in other classes. If you are interested in being on the team, this is a good resource to prepare, if you are not interested in being on the team, it is a good place to build your skill set, and learn strategies for success

Office Assistant (Semester): Students will work in the front office under the guidance of the secretary and help with day-to-day tasks. This is a pass/fail class and will not count towards GPA. It does count as an elective credit. **Application Required**

Participation Skills and Techniques (Semester): This one-semester course will develop participation skills and techniques in a variety of team sports, with emphasis on leadership, courtesy, respect, and fairness (sportsmanship). This course also provides instruction aimed at improving and maintaining physical fitness and continuing team sports participation.

Peer Tutor: Peer tutoring is a fun opportunity for students to develop leadership skills while supporting another student. Peer tutors accompany a student to class and help them be successful academically. Additionally, peer tutors build positive relationships and make an impact on the life of a student! One student said, “In, peer tutor, I get to make friends and make people feel special. I feel like I am being helpful and peer tutor has helped me to realize that I can’t focus on myself, instead I need to focus on helping others.”

Study Skills (Semester): This is comprehensive positive youth development, organization, and study skills program. The program focuses on young adolescent life and citizenship skills with a caring and consistent environment. Work completion is an emphasis.

Teacher Assistant (Semester): Student will work under the guidance of a teacher to help with day-to-day tasks. This is a pass/fail class and will not count towards GPA. It does count as an elective credit. **Application Required**

We the People (Semester): In this course students will gain skills such as critical-thinking, problem-solving, and cooperative-learning techniques while increasing their understanding of the institutions of American constitutional democracy. Students will prepare to participate in a state competition.

<https://www.lawrelatededucation.org/programs/we-the-people-the-citizen-a-the-constitution>

Yearbook (Semester): The yearbook staff is open to 8th and 9th grade students who are interested in creating the school yearbook. Students must be independent workers who manage their time effectively and efficiently and will be willing to spend the extra time and effort needed to produce a quality product. Yearbook deadlines must be met and will be an integral part of the grading in this class. Students must also have excellent writing and organizational skills. Keyboarding and computer skills are necessary because we will be using desktop publishing software to produce the yearbook. Students will build skills in teamwork, brainstorming, content management, responsibility, writing, graphic design, photography and distribution. The final product of this class will be the school yearbook which will reflect the standard of excellence that Mueller Park Junior High continually strives to meet. I look forward to a fantastic year working with you. **Application Required**

Yoga/ Zumba/ Aerobics: This class will teach the importance of flexibility, stress relief, health, and physical fitness. This class with focus on different types of Aerobic and cardiovascular workouts. Studies indicate that yoga can help reduce high levels of cholesterol and help prevent

heart disease. Zumba and aerobics involve high levels of a cardiovascular workout, dance and muscle building.