### **Clark County School District**

# **Magnet Schools**

# At a Glance

**Elementary Schools** (1<sup>st</sup> – 5<sup>th</sup> grade)

Walter Bracken Magnet School Math and Science through Technology

Carson Elementary School International Baccalaureate – Primary Years

Gilbert Magnet School Communication and Creative Arts

Mabel Hoggard Math and Science

Jo Mackey Magnet School Leadership and Global Communications

Sandy Searles Miller International Baccalaureate – Primary Years

Middle Schools (6<sup>th</sup> – 8<sup>th</sup> grade)

Bridger Middle School Mathematics, Science and Technology

Cashman Middle School Academy of Mathematics, Science and Engineering

**Robert O. Gibson Middle School** International Baccalaureate – Middle Years *candidate school* 

Hyde Park Middle School Academy of Science and Mathematics

#### K.O. Knudson Middle School

Band Dance Drama Orchestra TV Production (6<sup>th</sup> grade only) Technical Theatre (7<sup>th</sup> & 8<sup>th</sup> grade only) Technology/Computer Graphics (6<sup>th</sup> grade only) Visual Arts Vocal

Roy Martin Middle School International Baccalaureate – Middle Years High Schools (9<sup>th</sup> – 12<sup>th</sup> grade)

Canyon Springs High School Leadership & Law Preparatory

Clark High School Finance Math, Science & Applied Technology (AMSAT) Teacher Education

Desert Pines High School Academy of Communication Information Technology

Las Vegas Academy Band Dance Guitar International Studies (French, Japanese, or Spanish) Jazz Mariachi Orchestra Piano Tech Theatre Theatre Visual Arts Vocal

#### **Rancho High School**

Aviation – Aerospace Engineering Aviation - Private Pilot Medical – Pre Medical

Valley High School Hospitality and Tourism International Baccalaureate

For more information please visit our website at:

http://magnet.ccsd.net



# Clark County School District Career & Technical Academies

# At a Glance

#### **Advanced Technologies Academy**

Architectural Drafting & Design Business Management & Administration Computer Science Engineering Graphic Design Legal Studies Networking Technology Web Design & Development

#### East Career and Technical Academy

Auto Service Technology Construction Management Culinary Arts Education and Early Childhood Electronic Engineering Technology Entertainment Marketing & Hospitality Information Technology Medical Professions

#### Northwest Career and Technical Academy

Construction Management Culinary Arts Early Childhood Education Engineering & Design Hospitality & Marketing Mechanical Technology Media Communications Medical - Bio-Medical Medical - Biotechnology Teacher Education

#### Southeast Career and Technical Academy

3D Computer Animation for Film & Games Architectural Engineering Auto Service Technology Automotive Collision Technology Construction Engineering Cosmetology Culinary Arts Graphic Design & Illustration Internetworking Technology Nursing Assistant Photography Sports Medicine Video Production Website Interactive Media

#### Southwest Career and Technical Academy

Auto Service Technology Culinary Dental Entertainment Engineering Design Fashion Design Hospitality, Travel & Tourism Interior Design Nursing Respiratory Therapy Video Game Technology Web Design

#### Veterans Tribute Career and Technical Academy EMT

Law, Public Safety, Corrections & Security

#### West Career and Technical Academy

Biotechnology Business Management Civil & Environmental Engineering Digital Media Environmental Sciences & Natural Resources IT Management Nursing Pre Medical Studies Sports Medicine

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#### ELEMENTARY

#### Walter Bracken STEA M Academy

http://schools.ccsd.net/bracken Walter Bracken Magnet STEAM Academy has been named a Magnet School of Distinction by Magnet Schools of America, the National Association of Magnet and Theme-Based Schools. Students participate in an elementary academic curriculum with special emphasis on science, mathematics, and technology. Science and math instruction are integrated throughout all subject areas to show students real life applications. Three science labs – one focused on earth science, one on life science, and one on physical science – are used to enrich the curriculum and add hands-on experiences. In addition, students can explore mathematics through technology, math manipulatives, and hands-on problemsolving techniques in Bracken's math lab. They have access to modern technology for data collection, analysis, interpretation, and publication. Technology is also highlighted in Bracken's two top-of-the-line computer labs, where students are involved with a variety of programs and projects.

#### Kit Carson College Preparatory Academy of Creative Arts and Technology (IB candidate school) http://schools.ccsd.net/carson

Kit Carson is an International Baccalaureate (IB) candidate school. Currently in the authorization process, the faculty is trained on the IB Primary Years Program. Your child will benefit from this small school as it offers a globally-rich curriculum that is challenging and yet fun for students to learn together. The emphasis at Kit Carson is College Prep, Creative Arts and Technology. Students will explore science and social studies concepts, learn a second language, have access to a variety of reading materials, and use the latest technology to research topics in which they are interested. In addition, Kit Carson provides students an opportunity to explore the world through music, art, and dance. International Baccalaureate schools are globally renowned as schools of excellence, and many students who finish high school in IB schools excel in higher education.

### Gilbert Magnet School for Communication and Creative Arts

http://schools.ccsd.net/gilbert Students at Gilbert Magnet School for Communication and Creative Arts engage in an innovative and challenging instructional program designed to develop strong communication skills while enhancing each child's creativity. Gilbert's distinctive program integrates music, art, PE/movement, drama and broadcast communication into the entire curriculum so that learning becomes a multi-media and multi-modal experience. The school is equipped with a dance studio, a 450-seat theater and a state-of-the-art television studio where students learn various facets of television production, performance, and technical theater skills. Students increase oral and written communication skills and gain confidence and selfassurance as they participate in school activities. They receive not only a true fine arts education but also the strong academic preparation that will help them become better thinkers and communicators.

#### Mabel Hoggard Math and Science Magnet School

#### http://schools.ccsd.net/hoggard

Mabel Hoggard received a national top elementary school magnet award, sponsored by Magnet Schools of America. Mabel Hoggard Math and Science Magnet has the distinction of being the first elementary magnet school established in Las Vegas and the only elementary school in the Clark County School District to be accredited by the Northwest Association of Accredited Schools. At Hoggard, students participate in a rigorous academic curriculum with an emphasis on science, mathematics, and technology. They are taught the art of scientific investigation and mathematical problemsolving, utilizing computer technology to support their educational program. The curriculum is highly motivational, with extensive "hands on" math and science experiences. Students receive extended programs and activities through "explorations" in art, music, and physical education classes as well as the school's many outdoor and indoor lab programs. Hoggard teachers have extensive training in math and science education and incorporate state-of-the-art teaching and learning strategies into daily instruction. Mabel Hoggard is committed to the success of all children in the program

by creating an optimal learning environment that will help them succeed in the 21st century.

#### Jo Mackey Academy of Leadership and Global Communication

#### http://schools.ccsd.net/jomackey

In 2004, Jo Mackey became the Academy of Leadership and Global Communication. The school's motto is: "Preparing responsible leaders to succeed in a global society." The leadership program is built on the 3 C's philosophy - the development of positive Character, strong Citizenship, and outstanding Communication through technology to ensure student success. Students develop responsible leadership skills through lessons and experiences which promote a clear understanding of desirable character traits and habits of leaders. An emphasis on developing strong communication skills through technology prepares students to interact effectively. Jo Mackey provides a rigorous academic environment, including instruction in the arts and technology. Each classroom has a state-of-the-art interactive whiteboard to engage students in learning. Participation in service projects promotes students' understanding of their responsibility for active citizenship.

#### Sandy Searles Miller International Baccalaureate School Primary Years Program http://schools.ccsd.net/sandymiller

Sandy Searles Miller School is a globally recognized International Baccalaureate (IB) Primary Years Program, and the first school in Nevada to receive the top magnet school award in the USA (2008, Simpson Award). The Magnet Schools of America has awarded Miller with *Excellence and Distinction awards for the past five* years. Miller is recognized as a Science, Technology, Engineering, and Math (STEM) school and is a member of the state STEM coalition. As an IB school, Miller provides Spanish instruction to all students. Students are involved in their learning through inquiry and discovery in an internationally-relevant and rigorous program of study. Students are engaged in authentic real-world integrated experiences that guide student-centered learning. As students take action upon their learning experiences, they become active members of their school and community.

#### MIDDLE

#### Academy of Mathematics, Science, and Technology at Bridger Middle School http://schools.ccsd.net/bridger

Bridger Middle School Academy of Mathematics, Science, and Technology features a unique technology-based learning environment that focuses on using the computer as a problem-solving tool. Aerospace and Aviation introduces students to the history and fundamentals of aviation, including basic forces of flight, rocketry skills, space exploration, and career opportunities. Biomedicine trains students in the human body, disease, basic medical techniques and procedures, medical terminology and operation, care of medical equipment, and opportunities in the medical field. Robotics provides an introduction to the study of physics and engineering by teaching them how to build, program, operate, and use robots in different environments. Technology students learn about the major components of a computer system, computer maintenance and repair, and programming and web design. Sixth-grade students explore all five themes, while seventh-grade students choose two programs on which to focus. Eighth-grade students complete a Capstone project involving independent study and presentation to peers, family, and professionals.

#### Cashman Middle School Academy of Mathematics, Science, and Engineering

#### http://schools.ccsd.net/cashman

Cashman Middle School Academy of Mathematics, Science, and Engineering is a cutting-edge program that addresses the interests of middle school students, while incorporating the national standards in math, science, and technology. The program provides students with an integrated engineering, science, and mathematicscurriculum in extended blocks. Cashman's program provides project-based learning – a hands-on approach – that is exciting and fun for highly-motivated students seeking a rigorous educational experience. The program relates technology to students' daily lives, while fostering communication and collaboration by emphasizing a team approach. The goal of Cashman Academy is to enhance academic achievement and provide opportunities and motivation for students to ask questions, seek answers, *explore ideas, acquire knowledge, and experience understanding.* 

R.O. Gibs on Middle School Dual Language, International Studies, Imm ersion and Leadership Academy http://schools.ccsd.net/rgibson In the R.O. Gibson Middle School Dual Language, International Studies, Immersion and Leadership Academy Program, native English speakers and English language learners are enrolled in courses that emphasize literacy skills in both English and Spanish. Academic content core curriculum in English, reading, and math are taught in English, but English, science, and social studies classes, as well as some electives, are also taught in Spanish. Since lessons are not translated when switching from one language to the other, students learn language through parallel content. Language development is further supported by using manipulatives, graphs, models, visual aides, and technology in both languages. The goal at Gibson is to educate students by focusing on development of character, civic consciousness (through service learning projects), leadership, and career education. Through the Leadership Academy, students learn the role of a leader by being empowered to make change. They will gain the necessary academic and leadership proficiencies to make a difference in our community and in a global society.

#### Academy of Science and Mathematics at Hyde Park Middle School

#### http://schools.ccsd.net/hydepark

Academy of Science and Mathematics at Hyde Park Middle School provides students with an integrated math and science curriculum presented in an extended 160-minute block. The program uses a hands-on, interactive approach to learning which employs reallife applications. Strategies for preparing students for advanced placement coursework are incorporated into the Academy curriculum. This challenging program places a strong emphasis on higher mathematics and science through use of the scientific process. Performance-based learning enables our students to apply newly-acquired concepts and ideas to real-life situations in business, industry, research, and government. Technology is used to assist in the development of higher-level thinking, communication, and problem-solving skills.

#### K.O. Knudson Middle School Academy of Creative Arts and Technology

#### http://schools.ccsd.net/knudson

K.O. Knudson Middle School Academy of Creative Arts and Technology focuses on the performing and visual arts and technology. Students in the magnet program select a focus from the following areas: band, dance, drama, orchestra, TV production, technical theatre, visual arts, vocal, or technology/computer graphics. Students are

challenged to explore their interests and develop their talents while participating in an academically-challenging curriculum that is integrated with arts and technology. Students have an extended school day which includes two elective classes (their major area and one other elective). Students are initially placed in beginning, intermediate, or advanced levels of the program that they have selected as their major, based on a pre-assessment activity, and proceed to more advanced levels as their individual ability develops. Students participate in many performances, both at K.O. Knudson and throughout the community, and also have the opportunity to participate in a variety of clubs and after-school activities.

#### The International Baccalaureate Middle Years Program at Roy w. Martin Middle School

#### http://schools.ccsd.net/roymartin

The International Baccalaureate Middle Years Program at Roy W. Martin Middle School is designed to provide a framework of academic challenges and life skills for capable and motivated students who seek a rigorous educational experience that reaches beyond traditional school subjects. It stresses the interrelation of various disciplines, teaches a global view of knowledge, and gives consistent attention to academic discipline and challenging academic content. The Martin program builds organizational skills, encourages creativity, develops personal value systems, and prepares students for advanced study in high school and beyond. Students are encouraged to develop intercultural awareness, along with a genuine understanding of their own history and traditions. The program stresses the importance of a firm command of the English language and the acquisition of a foreign language. Further, it aims to develop an awareness of the media and competence in information technology. Roy W. Martin and the International Baccalaureate Middle Years Program is authorized through the International Baccalaureate

#### HIGH

#### Advanced Technologies Academy

(ATA) http://schools.ccsd.net/atech ATA offers eight college-preparatory programs in a unique, all-magnet setting. Students choose from Architectural Drafting and Design, Business Management and Administration, Graphic Design, Computer Science, Engineering, Web Design and Development, Legal Studies, and Networking Technology, as they embark on learning experiences designed to incorporate 21st century skills and emerging global technologies. Students take advanced course work in their chosen fields, in addition to rigorous academic classes at the Honors and Advanced Placement levels. ATA operates on a full eight-period day with modified block where required program courses begin at the ninth-grade level. Students earn college credit through the 2 + 2 Tech Prep program and through Advanced Placement courses. Community internships during the senior year allow students multiple opportunities to work in local businesses and to refine their skills prior to beginning college. ATA has been recognized each year by the state of Nevada as an Exemplary or High-Achieving high school; its graduating classes consistently earn millions of dollars in postsecondary and college scholarships.

#### Canyon Springs High School

#### http://schools.ccsd.net/canyonsprings

Leadership and Law Preparatory Academy at Canyon Springs High School is designed to allow students to grow and develop in an environment that is as diverse as the world is today. Students enrolled in the program enjoy all the amenities of a typical high school and have the opportunity to enroll in the course work required to graduate with an Honors Diploma. All magnet students at CSHS are enrolled in the same classes in their first two years, where they learn the basis of the American legal system, as well as the foundations of leadership in the business and political world. At the end of their sophomore year, students choose to major in leadership or law. Business Leadership majors continue their studies in business ethics, business law, economics, and entrepreneurship. Political Leadership majors continue their studies in economics, policy studies, and political analysis. Law majors continue their studies in constitutional, civil, and criminal law; legal debate; and trial advocacy. Students are challenged to be better and are able to leave high school adequately prepared to enter a university.

#### Clark High School

#### http://schools.ccsd.net/clark

Academy for Mathematics, Science, and Applied Technology (A.M.S.A.T) offers pre-university, accelerated classes in mathematics and science and integrated technology (computers and specialized laboratory equipment) that provides hands-on experience. Academy of Finance (A.O.F.) uses the National Academy Foundation's curriculum to introduce students to business, career, and academic options that will allow them to develop new perspectives on the professional world. Students engage in a learning experience that integrates business with industry and creates career awareness through participation in activities such as Future Business Leaders of America (FBLA) and Distributive Education Clubs of America (DECA). Teacher Education Academy at Clark High (T.E.A.C.H.), an integral part of the Clark County School District's Students Today... Educators Tomorrow campaign, provides an academic-based, pre-university curriculum for prospective student educators, including actual classroom teaching experiences. Students benefit from opportunities provided by the University of Nevada, Las Vegas: the Community College of Southern Nevada: Nevada State College; the Clark County School District; and professional educational organizations.

#### **Desert Pines High School**

#### http://schools.ccsd.net/desertpines

Academy of Communications, Sports Marketing Media engages students in communication fields (i.e. traditional print, radio, television, Internet, and "real time" digital mediums). In a digital classroom, students learn to operate TV, recording, and radio studios and to develop Internet web page applications. All aspects of effective communication-- including writing, editing, producing, presenting, publishing, recording, and broadcasting information—are emphasized. Students also engage in active and interactive learning experiences that apply mathematics and physics principles to real-world audio transmission industries. Academy of Broadcast Information Technology is designed to provide students with a quality college preparatory academic course of study, in combination with a rigorous industry-approved technical preparation for a career in information technology. Students experience hands-on practice

and exposure to careers in IT as they participate in job-shadowing, internships, and summer enrichment programs and have the opportunity to earn several technology certifications (e.g., A+, CNA, MOS) that prepare them for technical schools and entry-level technology job opportunities. AOIT students can choose from three technology career paths: Programming, Networking, and Multimedia.

## East Career and Technical Academy (ECTA)

http://schools.ccsd.net/ecta

The four-year comprehensive ECTA offers programs in Construction Management, Culinary Arts, Education and Early Childhood, Electronic Engineering Technology, Information Technology, Entertainment Marketing and Hospitality, Medical Professions, and Automotive Service Technology in a state-of-the-art facility. At ECTA students learn to meet the challenges of a changing global workplace. Our vision is to cultivate academic excellence though a Project Based Learning model, facilitated by the extensive use of emerging technologies. Curriculum is designed to foster in students the 21st-century learning skills of critical thinking, collaboration, oral and written communication, and ethical citizenship. Community and post-secondary partnerships allow students the opportunity to work with local businesses and earn college credits and certifications in their selected area of study.

#### Las Vegas Academy of the Arts http://schools.ccsd.net/lva

The ten-time GRAMMY Award-winning Las Vegas Academy of the Arts provides students with a twofold emphasis on academics and the arts. As a FIVE STAR school in the Clark County School District, LVA features an extensive academic curriculum including Dual Credit college courses, Pre-AP and Advanced Placement courses in all core subject areas as well as elective courses. In addition to core classes, each student chooses to pursue one of the following majors: Dance (modern, jazz, ballet, tap, ballroom and choreography); Music (brass, woodwind, percussion, strings, guitar, jazz band, mariachi, voice and piano); Visual Arts (drawing, painting, ceramics, graphic design, visual design, design crafts, photography, video production); Drama; Technical Theatre; and the Liberal Arts (world languages, humanities). An extended school day allows for additional classes in each chosen major field to ensure a rigorous, individualized program of study. Community Internships, Artist-in-Residence programs and numerous performance opportunities allow LVA students a chance to enhance their skills prior to pursuing their post-secondary plans. By providing students with an intense training program in both the arts and academics, LVA ensures each student is "ready by exit."

# Northwest Career and Technical Academy (NWCTA )

#### http://schools.ccsd.net/nwcta

NWCTA is a four-year comprehensive career and technical high school offering programs in Construction Management, Culinary Arts, Engineering and Design, Early Childhood Education, Hospitality and Marketing, Media Communications, Medical Professions (Biomedical and Biotechnology), Teacher Education, and Mechanical Technology. Not only can students earn high school diplomas and be prepared for college, but they can also earn a variety of professional licenses. Students will take

coursework unique to their program of study. Courses are rigorous and will prepare students for a variety of options after graduation. Students have the opportunity to earn credits through the 2+2 Tech Prep program and through Advanced Placement courses. Through hands-on projects, job shadowing, and internships, each student will gain firsthand experience in his/her selected program area. Rancho High School

#### http://schools.ccsd.net/rancho

Aviation Academy offers two four-year programs: The Private Pilot Training program includes the fundamentals of flight, space travel, and rocketry, as well as the opportunity to earn a Private Pilot License. Aerospace Engineering offers students interested in designing and building airplanes the academic foundation necessary for successful entry into a university-level engineering program. Students may earn up to 13 college credits. The Medical Academy offers pre-medical programs for students interested in becoming medical doctors, veterinarians, nurses, dentists, or pharmacists. Students may also learn basics skills employed in biotechnical laboratories, including DNA extraction and genetic engineering.

#### Southeast Career and Technical

Academy (SECTA ) http://secta.us

SECTA is recognized as a High Achieving school by the State of Nevada. It is a four-year comprehensive career and technical high school that offers qualified students the opportunity to enroll in one of 12 majors: 3D Computer Animation, Automotive Service Technology, Architectural Design, Internetworking Technology, Automotive Collision Technology, Construction Engineering, Cosmetology, Culinary Arts, Graphic Design and Illustration, Nurse Assisting, Sports Medicine, Video Productions, Website Interactive Media. Students can earn career and technical certifications, SECTA diploma, and professional licensure. The rigorous course of study includes professional-level career training programs, as well as college preparatory classes. Students also have the opportunity to earn college credits through the 2 + 2 Tech Prep program with the College of Southern Nevada. SECTA graduating classes consistently earn millions of dollars in scholarships to colleges, universities, and post-secondary schools.

## Southwest Career and Technical Academy (SWCTA )

#### http://schools.ccsd.net/swcta

SWCTA is a comprehensive magnet high school that offers 11 distinct areas of study. Students choose their program when applying for admission. They follow a four-year sequence of courses specified for their program area. Students can select either the Professional Service Academy or the Design Academy. Within the Professional Service Academy, students can choose one of the following six programs: Culinary Arts, Hospitality, Travel and Tourism, Nursing, Respiratory Therapy, Dental, or Automotive Service Technology. Within the Design Academy, students can choose one of the following five programs: Fashion Design, Interior Design, Entertainment Engineering Design, Video Game Technologies, or Web Design. Honors and/or Advanced Placement classes are offered at SWCTA to prepare students to transition to post-secondary institutions. Rigorous coursework, handson projects, job shadowing, and internships give students first-hand experience in their selected program areas.

#### Valley High School

#### http://schools.ccsd.net/valley

Academy of Hospitality and Tourism (AOHT) is a collaboration among the National Academy Foundation, the Clark County School District, and the Las Vegas Convention and Visitors' Authority to provide students with college preparatory curriculum and the training/ skills necessary for professional, entry-level positions in the travel and tourism industry. Students take courses related to hotel/motel management, gaming management, accounting, marketing, and finance, and are placed in paid internship positions (summer after 11th grade), working directly with management in hotel/travel-related businesses. International Baccalaureate (IB) is a college preparatory program recognized worldwide by colleges and universities as the most rigorous high school curriculum available. It offers a wide spectrum of courses in all major academic subjects and provides the academic, social, and leadership experiences necessary to postsecondary success. In addition to the four-year course of study, students take IB examinations in six prescribed subject areas, write a 4,000-word essay related to an independent study program, and engage in extracurricular and/or community activities. Students interested in this program should be prepared to study in all subject areas at an honors level.

#### Veterans Tribute Career and

#### Technical Academy (VTCTA)

http://schools.ccsd.net/vtcta

VTCTA is the first of its kind in the state of Nevada to offer rigorous academic courses and prepare students for careers in public service. This four-year comprehensive high school allows students to choose a program of study focused on one of the following: Law, Public Safety, Corrections and Security or Emergency Medical Services (EMT). VTCTA provides relevant academic education, including honors, advanced placement, and dual credit courses that prepare students for post-secondary options such as a Community College (two-year), University (four-year), or trade/technical school. It also provides technical skills and hands-on training that lead to work force employment. VTCTA's project-based, hands-on curriculum, plus mentoring and volunteering programs, prepare students for future careers in public service.

### West Career and Technical

#### Academy (WCTA)

#### http://schools.ccsd.net/westcta

WCTA is a four-year comprehensive career and technical high school that provides students with a college preparatory curriculum, in addition to course work unique to their specific program of study. Students can select from nine exciting programs, including: Pre-Medical Studies, Biotechnology, Nursing, Sports Medicine, Civil and Environmental Engineering, Environmental Science, Business Management, Computer Animation, and Information Technology Management. WCTA provides a strong foundation in academic knowledge while utilizing a technology-rich curriculum and project-based learning to make students competitive in our global economy. Small learning communities, community partnerships, and internships provide opportunities for students to actively participate in their education and develop skills necessary for success in the 21st century. The Geographic Information System (GIS) program also provides an exciting introduction for students to the Environmental Science, Biotechnology, Veterinary and Medical Science, and Business Management Programs.