



CORAL ACADEMY OF SCIENCE LAS VEGAS CENTENNIAL HILLS 2019-2020 MIDDLE SCHOOL ELECTIVE COURSES

It is a choice!

Coral Academy of Science Las Vegas (CASLV) believes that as the students work through their required academic studies they should be given opportunities to explore different areas of interest and enjoy subjects that are of their choice not necessarily imposed on them. For this very reason we are offering a variety of elective courses that will get attention from students of different interests.

Elective Course Selection Process

For the 2019-2020 academic year, all the elective course requests will be entered through an online form which will be posted on the school web site and emailed to the parents. The students are going to be placed in the elective courses on a first come first served basis. In the case that the first choice for an elective becomes unavailable we will look at your alternative choices.

Some electives might require additional conditions such as placement tests. If a student does not meet those conditions they will be moved to their next elective choice if available. Students who select a semester-long elective will select the elective for 2nd semester before the beginning of semester 2. Students will choose one elective. All the elective courses for the current school year are semester long electives.

Changing Electives

The students can switch to a different elective during the first two weeks of the school year if another elective is available. For this, you will need to contact the assistant principal.

About This Brochure

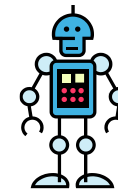
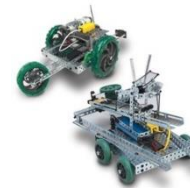
This brochure is designed to give a preliminary idea about the elective courses we are offering. Further details

about the courses and curriculum will be provided in the class. Please pay attention to the prerequisites and grade levels of the courses as you are making your choice.

***A student may be transferred out of an elective if pre-requisites are not met.**

PLTW: AUTOMATION & ROBOTICS

In this semester-long elective course, students will be exposed to the various daily uses of robots and automated functions within society. Students will be able to develop the conceptual understanding and explore mechanical systems, energy transfer, machine automation, and computer control systems. Students will grow their problem-solving skills by working on project-based challenges through the robotic design process.



Grade Level: 6, 7 & 8.

Instructor: Mr. Upton

PLTW: MEDICAL DETECTIVES



This semester-long course features a project-based curriculum designed to challenge and engage the natural curiosity and imagination of students. The class is designed with a blended learning model

where students will receive both direct instruction from the teacher and online learning by using a computer with internet access. Students will discover how healthcare professionals act as medical detectives in identifying, treating, and preventing injury and illness in their patients. Patient medical histories are examined and students investigate how these histories guide medical detectives to the correct diagnosis and treatment of a particular illness. Students also investigate and collect vital signs such as heart rate, blood pressure, and temperature. Finally, students research pathogens involved in food borne illness and act as medical detectives in diagnosing and proposing a treatment plan for a patient with a mystery illness. The knowledge that students' gain and the skills they build from the Medical Detectives course will create a strong foundation for further STEM learning in high school and beyond.

Grade Level: 6, 7 & 8.

Instructor: Ms. Fallon

PLTW: GREEN ARCHITECT



In this semester-long, students will learn how to create a scale model and perspective

drawing of their bedroom using paper and pencil, computer assisted drawing tools (AutoCAD & Autodesk's 3D

architectural design software - Revit) and building supplies. This will be accomplished by taking measurements of the four walls, identifying window, door and outlet locations, then putting it all together including furnishings. By learning how to accurately apply measuring, dimensioning and sense for design, students will explore the worlds of architecture, engineering and design using real world scenarios. In this project based learning course, students will design affordable housing units. This course will empower students to lead their own discovery. The hands-on program boosts classroom engagement and excitement, and drives collaboration.

Grade Level: 6, 7 & 8.

Instructor: Mrs. Waits



DEBATE & SPEECH

This **semester-long** course is an introductory

course to the art of rhetoric. This course will develop and improve public speaking, argumentative skills, and critical thinking skills in communication settings. Students will prepare and deliver speeches and participate in several of in class debates



and forums on current topics. Techniques will be taught to control speech anxiety and to organize information to present to a variety of audiences. As such, the fundamentals of physical and vocal delivery skills, use of language and gesturing, as well as listening skills will be learned.

In this semester long course, students will learn and review the production of oral communication through writing, delivering, and critiquing informal and formal speeches. Information and persuasive public speaking are emphasized as students learn to consider both sides of an issue in formal debate. Students will be taught methods to control speech and the fundamentals of physical and vocal delivery, use of language, and listening skills. Students will learn how to organize information for use in debate. Those who wish to participate in competitive debate may join the afterschool club for additional practice.

Grade Level: 6, 7 & 8.

Instructor: Ms. Calvaresi

STUDENT SUCCESS SKILLS

Happiness is something we all want, and new research shows that happiness and well-being can be taught! Learn crucial life & success skills that go beyond academic learning! Build



self-awareness, increase confidence, strengthen relationships, manage emotions, build collaboration, and improve problem-solving skills. Happier people tend to be healthier, more productive, more generous and kinder to others. They also learn more easily and enjoy life. Who doesn't want some of that? In this **semester-long** course students will learn these success and life skills.

Grade Level: 6, 7 & 8.

Instructor: Mrs. Parker

DRAMA

This **semester-long** course will introduce students to dramatic art and terminology. This class will use dramatic literature to develop a deeper understanding of character, action, theme, symbolism, irony, and staging. Students will read, perform, and write plays/one acts. In doing so they will also create small props or costume pieces. Students will study the basic concepts of drama and begin to refine their presentational skills. Students will use various creative drama techniques to build ensemble, stimulate imagination, movement, and role-play with an emphasis on believability and sensory awareness.



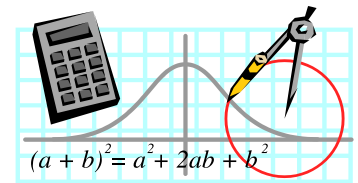
Grade Level: 6, 7 & 8.

Instructor: Ms. Henry

A-STEM MATH

A-STEM (Advanced Science, Technology, Engineering, Math Program) aims to train student towards prestigious math competitions in regional, national and international levels.

A-STEM's condensed training program



helps students to develop their critical and analytical thinking skills while providing a challenging environment for them. This program may also involve weekend studies.

Grade Level: 6, 7 & 8

Instructor: TBA

Pre-requisites: A Math Grade of B or Higher.

