



## CORAL ACADEMY OF SCIENCE LAS VEGAS CENTENNIAL HILLS 2021-2022 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 2021-2022 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 2<sup>nd</sup> 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

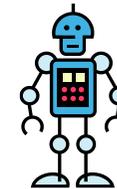
This brochure is designed to give a preliminary idea about the elective courses we are offering. Further details

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 & PERSPECTIVES



In this semester-long, course students will be introduced to the basics of scale and modeling skills

beneficial for occupations such as: architecture, interior design, engineering, art, manufacturing and any others that need to use small scale modeling to present real world ideas. We will start with the basic one-point perspective, and based on each student's needs, goals, and abilities to master, will move the learning along at student's pace. 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. If you love to draw, build, and create, let's explore a whole new 'perspective' together!

**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, as well as writing to support oral presentation.



Students will prepare and deliver speeches and participate in several 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. 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.

**Grade Level:** 6, 7 & 8.  
**Instructor:** Ms. Calvaresi

### STUDENT SUCCESS SKILLS

In this semester-long course, students will practice the skills necessary to be successful in middle school: organization, planning, time management, task initiation, working memory, sustained attention, self-control, and perseverance. Give yourself the tools you need to make this your most successful year yet.



**Grade Level:** 6 & 7  
**Instructor:** Mrs. Parker

### DRAMA

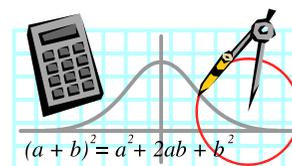
This **semester-long** course will introduce students to dramatic art and terminology. This class will use dramatic literature to develop a deeper understanding of character, action, theme, symbolism, irony, and staging. Students will read, perform, and write plays/one acts. In doing so they will also 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.

