Full STEAM Ahead Engineering Pathway

“STEAM pathways in science, technology, engineering, arts and mathematics are fueled by your donations through the Coronado Schools Foundation (CSF). With an unprecedented $1,000,000 return for this school year, your donations of every dollar amount allow these STEAM programs, like coding and engineering, to continue. Thus far, just 20% of our Coronado Unified families have made a donation of any amount. The support of both the parent and greater Coronado community is imperative to maintain this record level of Site Program Grant support for the 2019-20 school year.”

Ramona Loiselle
President & CEO

With technology at the center of our daily lives, coding is the key to the workforce now and in the future. Through the Site Program Grant at Coronado Middle School, Coronado Schools Foundation has provided funding for two coding classes. Introduction to Coding, a nine-week 6th grade course, introduces students to the Python coding language. Students learn how to write code, beyond black coding, including learning the syntax of a variety of coding commands. A second, semester-long coding course for 7th and 8th graders, builds on the same Python coding language where students develop more extensive code and begin to learn graphic development.

Learning to code is similar to learning a new language, one that uses both logical and mathematical elements. “On the most basic level, coding is how we communicate with computers, and what we use to build and run websites, apps, video games, and more.” (Ryan, “9 Reasons your Child Should Learn to Code”).

When students understand programming languages, they better understand the technologies in the world around them. In these middle school coding courses, students learn to troubleshoot, consider the purpose and solutions of technologies, and imagine ways to make the world a better place.

With coders designing apps that provide assistive technologies, products that enhance daily tasks, and transform the educational setting, students today must be prepared for jobs that respond to a continually changing world. “It’s imperative that leaders align K-12 classrooms with the growing demands of the future science, technology, engineering and mathematics (STEM) workforce. What makes this task particularly challenging is that today’s youth will likely face challenges that the adults around them can barely imagine.” (Raupp, “Moving Target: Preparing Today’s Minds for the STEM Jobs of Tomorrow”). With the support of the Coronado Schools Foundation, CMS is meeting the challenge of preparing students for their future careers with opportunities in STEAM pathways, K-12. This year, elementary students have opportunities in robotics and coding. Currently, there are three Principles of Computer Science courses offered at Coronado High School with a record 90 students enrolled.

Ramona Loiselle
CMS Introduction to Coding Teacher

Public Schools: Local Property Taxes don’t stay in Coronado

Coronado Unified is funded by the state of California based on the Local Control Funding Formula (LCFF). Only a small portion of our property taxes support education. Once the now-defunct Community Development Agency (CDA) repays its loans to the state, Coronado Unified may be re-categorized as a ‘Basic Aid’ district. The earliest this change in funding is possible is 2027 when the CDA loans are expected to be repaid.

 Ibid, “9 Reasons your Child Should Learn to Code”.

Every donation matters!

Donate Today!

Only 20% of Coronado Unified families have given any amount. Every donation matters!

Coronado Schools Foundation funds STEAM-inspired classes like Advanced Computer Science and Principles of Engineering at Coronado High School where then-student Padraig MacGabann solidified his passion for computer science and engineering. With California funded 42% in the nation in school funding, YOUR financial support is crucial to maintain STEAM pathways like engineering, coding and robotics. Padraig shares his journey and how he is giving back.

As a first-year Computer Science Major at UC San Diego, I realize how fortunate I was to have the opportunity to take advanced computer science classes at Coronado High School. During my senior year, I was able to leverage the programming skills I learned in the CHS Advanced Computer Science Class taught by Mrs. Patricia Samora. I worked with and led a team of students – Zone Clark, Oliver Durkovich, Anibal Ramirez and Jack Wang - to begin developing a web-based application for the Coronado Schools Foundation Locals Card program. This project has developed my project management, software development, and client relationship skills, all invaluable in my collegiate studies and future career. Dealing with the imperfect realities of dynamic clients and cross functional teams has prepared me well for more advanced project management roles in the future.

CSF is now launching the Locals App and donors who give $100 or more will not only receive the physical Coronado Locals Card, but also an invaluable link to the web-based application on their phones. My hope is that this will not only lead to an increased number of donors but will also add businesses that support our schools based on the increased marketing value.

· Padraig MacGabann

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### STEAM Pathways:

**STEAM Funding 2018-19**

*Site Program Grants: additional funds returned during the school year for scholarships and special projects to reach $1M.

**Elementary Schools (TK-5):**
- **SSE**: Silver Strand
  - **CMS**: Village & Early Childhood Development Center
  - Heidi Bergener, Ed.D.; Principal

**Middle School (6th-8th):**
- **SSE**: Coronado Middle School
  - Karin Mellina, M.Ed.; Principal

**High School (9th-12th):**
- **CHS**: Coronado High School
  - Shane Schnebel, Ed. Sp., Principal

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**Did you know?**

Coronado Unified School District receives $1,600 less per child than San Diego Unified. That equates to nearly a $5M deficit annually.
In these times of funding uncertainty, it is reassuring to know that, thanks to our dedicated Coronado Schools Foundation, students across Coronado Unified will continue to receive experiences which inspire creativity and foster critical thinking. Resources and opportunities provided through CSF are essential in ensuring our teachers and learners have the necessary tools to ignite a passion for discovery in every child, every day. Please give generously to allow us to maintain and expand STEAM pathways.

KARL MUELLER
Coronado Unified School District Superintendent

In this issue:
How your donations fuel STEAM Pathways and inspire imaginations, K-12.

THERE’S AN APP FOR THAT!
CSF launches student-developed App for Locals Card.

Check it out at: coronadolocalscard.org

California ranks 42nd in the nation in per pupil funding. Locally, Coronado Unified is funded in the lowest 7% of school districts across the state, simply due to student demographics.

2018-2019
PER STUDENT FUNDING

New Jersey, New York, Vermont $22,000
Palo Alto, CA* $21,008
Laguna Beach, CA* $20,201
Santa Monica-Malibu, CA* $16,928
San Diego, CA $10,335
Coronado, CA $8,721

*Basic Aid Districts