

## What are the STEM Career Readiness Pathways?

Parkwood High School strives to provide a wide array of small personalized learning communities. Beginning with the Graduation Class of 2022, rising Freshmen can apply for entrance into one of two Career Readiness Pathway Cohorts through an application process which requires parent approval, support, and knowledge. Career Pathway Cohorts courses are taught by teachers who bring real world industry examples into their classrooms. Cohort students will also gain insight into industry from guest speakers and field trips directly related to the pathway. Future Ready, Advanced Placement (AP) and Career and College Promise (CCP) courses are aligned to prepare cohort students to be college and career ready.



Our Career Cohorts allow students to learn in a collaborative manner while enhancing and enriching the existing curriculum through integrated learning environments with business and industry expertise.

## Questions?

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## Parkwood High School

### STEM Career Readiness Pathways



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### Who is Eligible?

Students must be a rising Freshman for the 2018-2019 School Year at Parkwood High School. Must have a C average or higher in Math I. Student participating in the STEM Career Readiness Pathway will be expected to follow the established course outline including Work-based learning as they progress through high school.

### How Do I Apply?

Interested students should visit the Parkwood High School website for additional information to include the pathway course layout for each year of high school. Students should complete the online application which will be posted on the website or can go directly to the application by visiting <http://bit.ly/StemCohort>. After submission of the online application, the student will receive an email with a hard copy of the application for them to obtain the necessary signatures and return to the Parkwood Middle School Career Development Coordinator, Brian Elliott. Mr. Elliott will obtain the necessary references for the student.

### Computer Science Pathway

Computer Science Pathway students will expand their understanding of computer science and computer programming concepts. Students learn fundamental principles and technology of programming. By integrating Robotics into the courses, students will have hands on experience applying their programming ability to robotics.



### Curriculum

Computer Programming I  
AP Computer Science Principles  
Robotics I  
Computer Programming II  
Robotics II  
AP Computer Science  
Computer Science Course (TBD)  
Career Readiness Internship

### Renewable Energy Engineering Pathway

The Renewable Energy Engineering pathway enables students to apply fundamental science and operating principles of clean energy systems to authentic problems. Such problems involve motors and generators, water and energy conservation, wind turbines, biofuel generation, bioreactors, water power, energy harvesting, fuel cells and nuclear power. Students use an engineering design process to develop solutions to these authentic problems.



### Curriculum

Green Energy/Solar PV  
Renewable Energy I  
Robotics I  
Renewable Energy II  
AP Computer Science Principles  
Renewable Energy III  
Renewable Energy IV  
AP Environmental Science  
Career Readiness Internship