



# Forest Edge Computer & Coding Club

[stemexcel.org/forestedge](http://stemexcel.org/forestedge)



Class size: 14-20 students. This course is sponsored by the Forest Edge PTA. No refunds or exchanges offered. Emergency contact info must be filled out during registration for each student who attends this course. If you have any questions, please contact PTA coordinators, Kathryn Wurster & Luciana Dias, [fees.aspchair@gmail.com](mailto:fees.aspchair@gmail.com)

## WINTER 2020 | Electronics with Minecraft Redstone:



**THURSDAYS, 3:45pm-4:45pm • January 23-March 5, 2020 • 7 WEEKS • Tuition: \$115**  
**7 meetings, 1 hour per class • Grades 1st-6th • Classroom TBD**

STEM exCEL's Electronics with Minecraft Redstone allows students to explore electronics in a virtual world with essentially infinite resources. Using Minecraft's Redstone blocks, which act as wires on a breadboard, students can build constructs representing electrical circuits and simple computer projects that are built in the real world. This course is a great precursor to understand real circuitry, electronics and electrical theory. This course allows students to gain an understanding of how computers are processing commands as they move on to other computer science studies, and take home their Redstone creations at the end of the course.

## WINTER 2020 | Robotics:



**FRIDAYS, 3:45pm-4:45pm • January 24-March 6, 2020 • 7 WEEKS • Tuition: \$115**  
**7 meetings, 1 hour per class • Grades 2nd-6th • Classroom TBD**

STEM exCEL Robotics is designed for students looking to get started with robotics, and who are possibly interested in learning competitive robotics. In this course, students learn how to design, build, and program Lego Mindstorms EV3 robots by constructing and programming a robot. By applying engineering concepts as well as advanced sensor programming skills, students will perfect their design and programming to solve a variety of challenges. These engineering, design and programming concepts serve as a great stepping stone for students that have an interest in competing in robotics competitions such as First Lego League (FLL).

## Registration is Open!

Please go to [stemexcel.org/forestedge](http://stemexcel.org/forestedge) to register.

## About the Computer & Coding Club program:

The program aims to align STEM education through beginner to advanced computer science and coding opportunities to build a Forest Edge community Computer & Coding Club. In subsequent enrichment sessions this year and going forward, Game Design, Website Design, Java, Python, Electronics, Robotics, 3D Printing and Minecraft Modding opportunities may be offered per PTA feedback.

Contact us: 571 349 0048 • [info@stemexcel.org](mailto:info@stemexcel.org) • Visit us: [www.stemexcel.org](http://www.stemexcel.org) • This Information is neither sponsored nor endorsed by the Fairfax County School Board, the Superintendent, or this school.