



STEM SCOUTS®

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I wanted to take a moment to tell you about an **exciting new program** happening right now at the Northcentral Technical College campus in Wausau!

STEM Scouts is a coed pilot program that is designed to focus on the **fun and exciting opportunities** for youth in science, technology, engineering, and mathematics (STEM). Through weekly meetings and four to six week modules that cover a variety of disciplines, STEM Scouts is designed to be fast-paced, thought provoking, and fun. The program will show youth how to apply STEM in their everyday lives and encourage them to develop those experiences into a future career.

As career prospects within these fields continue to grow, STEM Scout modules will aim to demonstrate to youth the exciting opportunities that a career in STEM can provide. These activities are tailored to a variety of disciplines and will have a lesser focus on traditional outdoor experiences.

The program helps youth prepare for the future with several unique experiences such as **interactions with STEM professionals** and the opportunity for STEM Scouts at the high school level to publish their work in a peer reviewed journal, all increasing their chances for college scholarships. Adult Lab Managers will lead STEM Scouts Labs and we encourage STEP (Short Term Experienced Professionals) to volunteer to help mentor STEM Scouts, lead special Labs, and host field trips.

To **sign up** please visit the STEM Scouts website at www.stemscouts.org/weston and choose either the Tuesday or Thursday NTC Middle School lab. All boys and girls from grades 6th-8th are welcome to sign up for the program. Scholarships are available. The lab is limited to 15 participants. Please join us for meetings **on Tuesdays or Thursdays from 6-7:30 pm in room H117 at NTC**. If you have any questions please contact Amanda Flannery at stemscouts@samoset.org. Thank you!





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2017-2018 School Year STEM Scouts Program Activities Technology Lab (Middle School Grades 6-8)

Module-1 Crazy Robot Machines: Discover the world of automated machines, including simple machines and drivetrains, and find out how motors and gears work together. Then develop a crazy (Rube Goldberglike) machine and automate it using VEX IQ Robot kits.

Module-2 Mobile Apps: Smartphone and tablet apps are available for gaming, networking, and communicating, and provide tools to manage everyday life. Learn and use one of the more common methodologies, called “design thinking,” to conceive, design, and build a mobile device app.

Module-3 How Does Light Work?: Light and the absence of light have fascinated people since ancient times. In this module, discover what light is and experiment with many of the key properties of light.

Module-4 STEM Scouts: Mission to the International Space Station: Go on a simulated mission to the International Space Station (ISS), where you will learn about life as an astronaut, the ISS itself, and fascinating experiments in space!

Module-5 War of the Drones: Explore the world of drones with the Syma QuadCopter. Experiment with the drone in a variety of ways and learn about safety regulations and flight planning. Plan a race, learn how to measure velocity and acceleration, and use the drone to investigate a community issue and prepare a proposal to make some community improvements.

This is not a Wausau School District sponsored activity and the opinions expressed are not necessarily those of the school district or its personnel.