FIRST ROBOTICS
FIRSTROBOTICS@CLARKSON.EDU

ABOUT THE TEAM
» Charged with mentoring local high school students who design and build a robot to play in a unique game each year.
» Competes at two regional competitions in March and a world championship in April (if they qualify during the six- to seven-week season).
» Follows guidelines set by FIRST (For Inspiration and Recognition of Science and Technology).

ABOUT THE MEMBERS
» Historically, some 25 Clarkson students and 20 high school students.
» Clarkson students — often several of whom competed in FIRST high school programs — with many majors.

TIMELINE

JANUARY
DESIGN
» Use Autodesk Inventor to design parts and assemblies on a computer.
» Create technical drawings and documents.

FEBRUARY
MANUFACTURE + CREATE
» Create parts from the design phase in Clarkson’s machine shop.
» Design an electrical control board to power the robot functions.
» Teach high school students how to wire the components together.

MARCH
PROGRAM + PUBLICIZE
» Teach students how to write code in JavaScript.
» Program the robot to perform complex, autonomous and driver-controlled routines.
» Use feedback sensors to create more complex control of the robot.
» Help students create award submissions.

LATE SPRING
COMPETE + COACH
» Coach high school students while they drive the robots during competition matches.
» Work with students as a pit crew to maintain robot functionality and scout other teams.