

Dear Scouts,

On Saturday at Space Jam, students from Westside Boiler Invasion, FIRST Robotics Team 461, will be visiting you as part of the team's Robotics Merit Badge Program. We are a group of high school students from West Lafayette, Indiana, who work throughout the year on robotics and community service related projects and compete annually in FIRST Robotics Competitions. It is our goal to provide you with the resources you need to attain your Robotics Merit Badge. As you may know, there are seven requirement categories that you need to complete to receive the badge: Safety; Robotics Industry; General Knowledge; Design, Build, Program, Test; Demonstrate; Competitions; and Careers. Our visit to you in August will include both a presentation and an interactive hands-on session that will allow you to complete the requirements in all of the categories. Although you will be able to complete all the requirements on Space Jam Saturday, we recommend that you do some preliminary research and work towards your merit badge before we come, as we will then be able to advise you about anything you may be struggling with. For your convenience, we have included in this document a description of our plan to get you started. We look forward to seeing you in August! For further information about our team, visit www.boilerinvasion.org. Feel free to email us at florences@wl.k12.in.us with any questions you may have. Sincerely, David Afolabi and Devan Williams Westside Boiler Invasion FIRST Robotics Team 461

Description: We will start each of the two merit badge sessions (you only take one or the other to get the badge) with a 50-minute presentation about robotics safety, general knowledge, robotics industry, youth competitions, and career opportunities in robotics. Our presentation should help you meet the requirements for the Safety, Robotics Industry, General Knowledge, Competitions, and Careers categories. After the presentation you will work on the Design, Build, Program, and Test, Demonstrate, and Competition requirements. You will be divided into groups of two. Each small group will be given a robot kit of parts, and computers will be available for programming. Schedule 8:00 AM -- 11:00 AM – Robotics Merit Badge Session 1, then 11:00 AM– 2:00 PM – Robotics Merit Badge Session 2. The Plan for each session: Intro, – Short interactive presentation “designing” – Build time and NXT programming – Programming and Testing – Sumo Competition This allows us to meet the requirements for Safety, Robotics Industry, General Knowledge, and Careers during the presentation and the requirements for Design, Build, Program, and Test, and Demonstrate, during the sessions.