2025 JUMPSTART Training Sessions

8:30-9AM	Registration	AG Hill South East Entrance
9:00-9:15AM	JUMPSTART Kick Off	Room 112

Jumpstart Fargo

Room	Room 112	Room 330	Room 234	Room 126	Room 300 - SCSU Sessions	Room 122 - SCSU Sessions
Occupancy	295		80	48	99	98
9:25AM - 10:15AM Round 1	**Why so many girls?** 3102 has had close to 50% female membership and been a welcoming co-curricular option for nearly 20 years. Spend some time with their current girls and see why they Robot! **Team 3102**	**Mentor Round Table** A roundtable to discuss things impacting Mentors in FRC. **STEM Alliance**		**Pushing the right buttons: welcoming everyone to FIRST** Students from Team 4360 will share the ways we've found to interest a wide range of people in robotics. By providing opportunities for creative engagement by making buttons and offering a variety of jewelry items for free we are able to connect with visitors at competitions and with people in our community we would not otherwise reach. **Team 4360**	**Manipulators Part 1** Part 1: Intake Game Pieces and Scoring (bring the game piece into your bot) **Mark Durand**	**Taking Motor Contols to the Next Level** Discover how to optimize your robot's movement and accuracy using PID, FeedForward, and motion profiling. **Andy Gasser (7028)**
10:20AM - 11:10AM Round 2	**You Make The Call!** Learn why knowing the rules are important by showing clips from the matches and review the calls made by the refs and why they where called. **Head Refs Shelley and Andy**		**Planning after Kick Off** Getting your team ready at the start of the season **Team 3134/3275**	**Starting a Unified Robotics Program in your community** Disccsions on how to start a Unified Robotics program in your school/community and share how the Robojacks started their journey in Unified Robotics. Unified Robotics is a Team-based experience where neurodiverse students work together to build and program a LEGO robot. **Team 4674**	**Manipulators Part 2** Part 2: Lifts, arms and Elevators (moving the Game Piece in your bot) **Mark Durand**	**Unraveling Robot Mysteries with Logging and Dashboards** Unraveling Robot Mysteries with Logging and Dashboards **Andy Gasser (7028)**
11:15AM - 12:05PM Round 3	**Regionals and You!** Helpful tips and tricks that will help you and your team get the most out of regional events **Rory Held - STEM Alliance**		**Impact Round Table** Discussions on presentations, SA, and Executive summaries Bring Copies of your documents to sahre and discuss. **Team 3102/3134**	**MoneyBot - Strategies to be competitive with limited resources** How to identify resources and set competitive goals to maximize those resources for the build/compititon season. We will look at statistics to help set realistic competitive goals, especially for early season events. **Team 4674**	**Manipulators Part 3** Part 3: Climbers, Kickers and Power (Endgame moving your bot) **Mark Durand**	**Hacking the Meta Quest for FRC Navigation** Hacking the Meta Quest for FRC Navigation **Andy Gasser (7028)**

Lunch						
12:05PM-1:35PM	**Break for lunch at West Dinning Hall. Lunch is provided by NDSU College of Engineer and STEM Alliance**					

	Room 112	Room 330	Room 234	Room 126	Room 300 - SCSU Sessions	Room 122 - SCSU Sessions
1:40PM - 2:30PM Round 4	**So you are not a Rookie** Discussions for Juniors, Seniors, and Mentors with 3-8 years experience "Inspire the Future" award winning Team 3102 asks the tough questions about your team and if you are "Inspiring the Future". **Team 3102**		**Life After FIRST** Students will learn about life after high school with a focus on your experience as a FIRST alumni. We will discuss next steps in life and how it is impacted by your experience in FIRST **Bison Robotics**	**Engineering Inspration** Information on Engineering Inspration presented back-to-back regional award winning Team 7048. **Team 7048 Alumni**	**FIRST, a Safe Place to Fail** We all love talking about our successes, but often we learn our best lessons through failure. FIRST provides a safe environment to try new things and often fail. Tell us about your failures and how (hopefully) you grew and learned from the experience. Group discussion **Dean Diers (8516)**	**Intro to PID tuning and FeedForwards** An introductory course for those who want to learn about PID tuning and FeedForwards. We will cover why PID are important, as well as some methods to tune them. **Evan K (FRC4607)**
2:35PM - 3:25PM Round 5	**NMRC/MRCA Scholarships & Awards Session** A review of different awards and scholarships avaiable through the NMRC and MRCA **NMRC**			**OnShape for FIRST** Join us for an intro to some of the FIRST-specific resources available for OnShape. The presenter is NOT an OnShape expert…this session is more about sharing resources than an intro-to-OnShape tutorial **Team 4360**	**Organizational Strategy Roundtable With in a department** I would hold a roundtable discussion to talk about our current organizational practices and the improvements we can still make. By hearing what others are doing and sharing ideas, we can gather more information about the topic and figure out what we could be doing better. **Lauren T (FRC4607)**	**Intro to Commands and the Command Scheduler** This is an introductory course on using WPILIB's commands in order to automate tasks in teleop control safely and effectively. We will cover command structure, command groups, and some example scenarios. **Evan K (FRC4607)**