

2024 JUMPSTART Training Sessions

SCHEDULE - Last Update 12/5/2024

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



Room	Room 112	Room 334	Room 234	Room 126	Room 300	Room 122
Occupancy	295	78	80	48	99	98

9:25AM - 10:15AM	Round 1	Rookie Ready	Batteries!	Photon Vision	Engineering Inspiration	SCSU Session - Manipulators Part 1	SCSU Session - FRC 2025 Updates
		Useful things from rookies.	Battery health and the Computerized Battery Analyzer	Introduction to Photon Vision	Overview of the Engineering inspiration award and a review of 7048 winning award	Part 1: Game Pieces, Intake and Scoring	This session will review and analyze the recent FIRST blog posts FRC task force updates on regional advancement, field damage, alliance selection, and 2025 game piece preorders. See data on how regional advancement changes would have affected previous seasons, touch and feel a variety of newly legal bumper material, and speculate on possible 2025 game pieces based on what was revealed in the game piece pre-order blog post.
		4539 - Eric S.	3134/3275	7048/4360 - Nick Butts	7048	Mark Durand	; 46<

10:20AM - 11:10AM	Round 2	NEXUS	Refs!	Intro To CAD	Impact award	SCSU Session - Manipulators Part 2	SCSU Session - Taking Motor Control to the Next Level
		How to be successful with the queue system	What is like being a Ref, how to interact successfully with the Refs and Q&A	Intro to CAD- Autodesk Fusion 360	Overview of the impact award and a review of 3134 winning award	Part 2: Lifts, arms and Elevators	Discover how to optimize your robot's movement and accuracy using PID, FeedForward, and motion profiling.
		Rory Held - STEM Alliance	Ref Andy	Jayse McLean - John Deere	3134	Mark Durand	7028

11:15AM - 12:05PM	Round 3	Strategy in building	After FRC	FRC Electrical	Running a Pit	SCSU Session - Manipulators Part 3	SCSU Session - Unraveling Robot Mysteries with Logging and Dashboards
		Helpful info for Alliance selection and the new selection process	Life After FIRST	Information on the electrical system of a robot, how to use a multi-meter and more!	Tips and tricks to running a safe and successful Pit.	Part 3: Climbers, Kickers and Power	Learn how to use powerful tools to gain insights into your robot's inner workings. Explore DataLogger, AdvantageScope, and dashboards to help optimize your robot and solve issues.
		4539 - Eric S.	Bison Robotics	7048 - Various	7048 - Cody Rasmussen	Mark Durand	7028

Lunch							
12:05PM - 1:35PM	Break for lunch, please feel free to go off campus or over to the Union for food options.						

1:40PM - 2:30PM	Round 4	2025 Alliance Captains	About NMRC	Introduction of Robot Sensors and Actuators	Load em' Up!	SCSU Session - Robotbuilder programming your Kit-bot	SCSU Session - FRC Java Programming
		Helpful info for Alliance selection and the new selection process	History, what we do, how students/teams benefit	An Overview of the fundamental components driving modern robotics.	Traveling to out of state events with your FRC team	First time programmers, use Robotbuilder to program your Robot. Set up Robotbuilder and explore Command Based Programming.	Don't know where to start with FRC Java programming? Join this session to learn how to get set up and write an FRC Java program. We will cover the tools, learn about the lifecycle of a robot, and the basics of command-based programming.
		7048 - Rory Held	NMRC	Muneer Khan - John Deere	Olaf Netteberg	Corey Applegate	7028

2:35PM - 3:25PM	Round 5	3D Printing in Robotics	Robotics for All abilities	Student leader Round Table	Mentor Round Table Room 330	SCSU Session - Strategic Design	SCSU Session - Future proofing your code
		Considerations when 3d print robotics parts	Introduction to Unified Robotics	Round table session for student leaders on the team to discuss things impacting FRC. Group discussion about team structures and leadership systems. Compare and contrast ideas and discuss pros and cons.	A roundtable to discuss things impacting Mentors in FRC.	A step by step guide for optimizing a team design decisions throughout the season. This presentation will outline the type of design decisions teams face from kickoff all the way through championships. In addition, we'll discuss how to factor in a team's unique resource limitations into their robot design. This presentation takes inspiration from Karthik's presentation given at the world championships.	A rundown on how to write your code so that it can be easily understood and built upon in the future
		7048 - Tim Ryan	4674 - Kirk Anderson	Various Team Leaders	STEM Alliance	Matt C 6045	4607