



6th, 7th, 8th
 2022 Engineering
 Challenge Camp
**“Engineering a Better
 Tomorrow”**

Monday

Time	Activity	Location	Instructor
8:30-9:00	Drop off / sign in	ESB Atrium & G39	Office Crew
9:00-9:30	Welcome, introductions/ice breaker, camp structure	ESB 207	Counselors
9:30-10:00	Introduction to challenges: Cotton Ball Launcher	ESB 207	Counselors
10:00-11:00	WVU Mining Extension demonstration: smoke trailer	ESB Atrium (start), Lot 40 (demo)	Counselors & Josh Brady Director of WVU Mining Extension
11:00-12:00	Mining Engineering Safety Challenge	ESB 251	Counselors
12:00-12:30	Lunch	ESB G39 hallway	Counselors
12:30-1:30	Mining Engineering Safety Challenge	ESB 251 & ESB 211 (simulated mine)	Counselors
1:30-2:30	Intro to Star Link challenge	ESB 251	Counselors
2:30-2:45	Snack break	ESB G39 hallway	Counselors
2:45 – 3:25	Star Link challenge continued	ESB 251	Counselors
3:25-3:45	Intro to Rockets Challenge	ESB 251	Counselors
3:45-4:30	Tour the Lane Innovation Hub Intro to Rockets Challenge	Lane Innovation Hub (ESB)	Counselors & Innovation Hub Staff
4:30-5:00	Council of Councils meeting	ESB 207	Counselors
5:00	Sign out / pick up	ESB Atrium	Office Crew



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8:30-9:00	Drop off / sign in	ESB Atrium & G39	Office Crew
9:00-9:10	Ice Breaker	ESB 251	Counselors
9:10-10:30	Rocket Challenge: nose cones	ESB 251	Counselors
10:30-10:45	Conical surprise	ESB G39 hallway	Counselors
10:45-12:00	Meeting Energy Demands Challenge	ESB 251	Counselors
12:00-12:30	Lunch	ESB G39 Hallway	Counselors
12:30-1:45	Leachate at the landfill Challenge	ESB 211	Counselors
1:45-3:45	Robotics	AERB 137	Counselors
3:45-4:00	Snack break	ESB G39 Hallway	Counselors
4:00-4:45	Nitrogen Cycle Challenge	ESB 207	Counselors
4:45-5:00	Council of Councils meeting	ESB 207	Counselors
5:00	Pick-up	ESB Atrium	Office Crew



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Wednesday

Time	Activity	Location	Instructor
8:30-9:00	Drop off / sign in	ESB Atrium & G39	Office Crew
9:00-9:10	Ice breaker	ESB 207	Counselors
9:10- 10:15	Rocket Challenge: fin design	ESB 207	Counselors
10:15-11:15	Cybersecurity	ESB G78B	Shannon Biega
11:15-12:00	Rocket Challenge: laser cut fin design	Lane Innovation Hub	Counselors & Innovation Hub Staff
12:00-12:30	Lunch	ESB G39 Hallway	Counselors
12:30-1:30	Hydraulics Challenge	ESB 207	Counselors
1:30-3:30	Robotics	AERB 151	Counselors
3:30-3:50	Snack break	ESB G39 Hallway	Counselors
3:50-4:45	Engineers Without Borders: Clean Water Challenge	ESB 207	Counselors
4:45-5:00	Council of Councils meeting	ESB 207	Counselors
5:00	Pick-up	ESB Atrium	Office Crew



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8:30-9:00	Drop off / sign in	ESB Atrium & G39	Office Crew
9:00-9:10	Ice Breaker	ESB 207	Counselors
9:10- 10:15	Rocket Challenge: Assemble	ESB 207	Counselors
10:15-11:15	Industrial Engineering: Smart Manufacturing	ESB G78A	Dr. Wuest & Graduate Assistants
11:15-12:00	Shanghai Tower Challenge	ESB 207	Counselors
12:00-12:30	Lunch	ESB G39 Hallway	Counselors
12:30-1:30	Electromagnet Crane Build Challenge	ESB 207	Counselors
1:30-3:30	Robotics	AERB 137	Counselors
3:30-3:50	Snack break	ESB G39 Hallway	Counselors
3:50-4:50	Biomedical Engineering	ESB 251	Taylor Stump & Counselors
4:-5:00	Council of Councils meeting	ESB 251	Counselors
5:00	Sign out / pick up	ESB Atrium	Office Crew



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Friday

Time	Activity	Location	Instructor
8:30-9:00	Drop off / sign in	ESB Atrium	Office Crew
9:00-9:10	Ice Breaker	ESB 207	Counselors
9:10-10:00	Biomedical Engineering: Clearing a Path to the Heart	ESB 251	Counselors
10:00-11:00	Thermo Fisher Community Service	ESB 207	Thermo Fisher Representatives
11:00-12:00	School bus or bust challenge	ESB 251	Counselors
12:00-12:30	Lunch	ESB G39 Hallway	Counselors
12:30-1:30	Air Drag Challenge	ESB 251	Counselors
1:30-3:15	Rocket launch	WVU Rec Center soccer fields	Counselors
3:15-3:40	Snack break	ESB G39 Hallway	Counselors
3:40-4:15	Sphero Bocce Ball	ESB 207	Counselors
4:15-4:45	Parent showcase	ESB G39 Hallway	Counselors
4:45-5:00	Final Council of Councils meeting / camp awards	ESB G39	Counselors
5:00	Sign out / pick up	ESB Atrium	Office Crew