



4th and 5th Grade Engineering Challenge Camp

Cosponsored by:



Monday

Time	Activity	Place	Led By
12:30 p.m.	Registration/Check In	ESB Atrium	Cate Schlobohm
1:00 p.m.	Welcome and Icebreaker	205 MRB	Counselors
1:10 p.m.	Intro to Mechanical Engineering	205 MRB	Counselors
1:15 p.m.	<u>Windmill Designer</u> – Build a wind turbine to convert wind energy to electricity	205 MRB	Counselors
2:45 p.m.	Snack/Break/Discussion	MRB Atrium	Counselors
3:00 p.m.	<u>Crash Test Safety</u> – Design a car which best protects a passenger in a crash test	205 MRB	Counselors
5:00 p.m.	Pick Up	ESB Atrium	Counselors

Tuesday

Time	Activity	Place	Led By
12:30 p.m.	Registration/Check In	ESB Atrium	Cate Schlobohm
1:00 p.m.	Welcome and Icebreaker	G35	Counselors
1:10 p.m.	Intro to BioMedical/Chemical	G35	Counselors
1:20 p.m.	<u>Heart Valve</u> – Design your own valve to direct flow	G35	Counselors
2:30 p.m.	Snack/Break/Discussion	MRB Atrium	Counselors
2:45 p.m.	<u>Astronaut Glove Box</u> – Construct your own “chemical hood” to safely carry out chemical reactions	205 MRB	Counselors
3:45 p.m.	<u>Astronaut Chemistry</u> – use your glove box to carry out chemical reactions	205 MRB	Counselors
5:00 p.m.	Pick Up	ESB Atrium	Counselors

Wednesday

Time	Activity	Place	Led By
12:30 p.m.	Registration/Check In	ESB Atrium	Cate Schlobohm
1:00 p.m.	Welcome and Icebreaker	G35	Counselors
1:10 p.m.	Intro to Civil Engineering	G35	Counselors
1:15 p.m.	<u>Dam Design</u> – Construct a dam that can control the flow of water	G35	Counselors
2:30 p.m.	Snack/Break/Discussion	MRB Atrium	Counselors
2:45 p.m.	<u>Shipwright</u> – Use your knowledge of buoyancy, density, and weight to design a ship	109 MRB	Counselors
3:45 p.m.	<u>Route 66</u> – Build a road over a landscape that includes tunnels and elevation change	205 MRB	Counselors
5:00 p.m.	Pick Up	ESB Atrium	Counselors

Thursday

Time	Activity	Place	Led By
12:30 p.m.	Registration/Check In	ESB Atrium	Cate Schlobohm
1:00 p.m.	Welcome and Icebreaker	MRB 105	Counselors
1:10 p.m.	Intro to Electrical Engineering/Computer Science	MRB 105	Counselors
1:15 p.m.	<u>Robot Lifeguard</u> – Build a device to attach to a sphero, then code it to rescue a Barbie	MRB 105	Counselors
2:30 p.m.	Snack/Break/Discussion	ESB Hallway	Counselors
2:45 p.m.	<u>Electric Artist</u> – Use conductive materials and paints to make a piece of electric art	205 MRB	Counselors
3:45 p.m.	<u>Soundsystem</u> – Design and build your own electronic speaker to play music	G35	Counselors
5:00 p.m.	Pick Up	ESB Atrium	Counselors

Friday

Time	Activity	Place	Led By
12:30 p.m.	Registration/Check In	ESB Atrium	Cate Schlobohm
1:00 p.m.	Welcome and Icebreaker	209 MRB	Counselors
1:10 p.m.	Intro to Mining/Industrial/PNG Engineering	209 MRB	Counselors
1:15 p.m.	<u>Henry Ford</u> – Work with your team to design the fastest vehicle assembly line	209 MRB	Counselors
2:40 p.m.	Snack/Break/Discussion	MRB Atrium	Counselors
3:00 p.m.	<u>Pasta Pandemonium</u> – Build a Device which can quickly sort various types of pasta	205 MRB	Counselors
4:00 p.m.	<u>Oil Rig Designer</u> – Perform coring to locate “oil”, and then design an oil rig to extract it.	G35	Counselors
5:00 p.m.	Pick Up	ESB Atrium	Counselors

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