



## Fiserv Future Techies: Track Descriptions

**Launch:** Tuesday, February 4, 2025

**Sessions:** Tuesday's, February 4, 2025 – April 15, 2025

**Time:** 3:30 PM – 5:00 PM

**Address:** 6855 Pacific Street, Omaha, NE 68106

**OPS Teachers:** Mike Mansour (Norris), Toni Ridley (L&C), Sherri Vollmer (Bluestem)

<b>February 4</b> <b>3:30 – 5:00 PM</b>	<b>Techie Track #1: Engineering Design Process</b> <b>John Ferguson, VP Technology</b> <ul style="list-style-type: none"><li>▪ <b>Expert:</b> Explain EDP and the design thinking processes.</li><li>▪ <b>Activity:</b> Students work in groups to design a bridge and optimize its load capacity using software and traditional methods to evaluate the impact of technology on the engineering design process.</li></ul>
<b>February 11</b> <b>3:30 – 5:00 PM</b>	<b>Techie Track #2: Augmented vs Virtual Reality</b> <b>Stephanie Patton, Manager IT and Ethan Christensen, Technology Analyst</b> <ul style="list-style-type: none"><li>▪ <b>Expert:</b> Discuss both similarities and differences in Augmented and Virtual realities.</li><li>▪ <b>Activity:</b> Students will cycle through stations to experience both AR (Lenovo ThinkReality Glasses) and VR (Meta Quest headsets) and create their own AR experience using Adobe Aero.</li></ul>
<b>February 18</b> <b>3:30-5:00 PM</b>	<b>Techie Track #3: Machine Learning and Artificial Intelligence</b> <b>Ethan Christensen, Tech Analyst</b> <ul style="list-style-type: none"><li>▪ <b>Expert:</b> Differences in ML and AI technologies.</li><li>▪ <b>Activity:</b> Students will demonstrate examples of machines making decisions based on image recognition data. Students will program a FINCH robot to move, turn or light up using Snap block-based coding based on which object it identifies using AI and ML.</li><li>▪</li></ul>
<b>February 25</b> <b>3:30-5:00 PM</b>	<b>Techie Track #4: Data Visualization</b> <b>Edgar Lopez-Ramirez, Sr. Director, Business Operations Analysis</b> <ul style="list-style-type: none"><li>▪ <b>Expert:</b> Educate on data, data usage in computers, collecting, recording, and analyzing data, why data points matter and how data helps solve problems in technology.</li><li>▪ <b>Activity:</b> Build and visualize student generated data in an app and create an AI assisted marketing campaign</li></ul>
<b>March 4</b> <b>3:30 – 5:00 PM</b>	<b>Techie Track #5: App Fundamentals with Marvel</b> <b>Joe Selvaraj, IT Director</b> <ul style="list-style-type: none"><li>▪ <b>Expert:</b> Discuss applications, software development, design methods, application use in marketplace.</li><li>▪ <b>Activity:</b> Students are provided with a business in need of a technological solution. Students will design an application to solve a business need then build a spreadsheet that can be converted into the app.</li></ul>
<b>March 11</b> <b>3:30 – 5:00 PM</b>	<b>Techie Track #6: Mechanics in Motion (Field trip to the Fiserv Print Facility)</b> <b>Teresa Zwiener, VP Output Solutions</b> <ul style="list-style-type: none"><li>▪ <b>Expert:</b> Understanding of how machines help businesses operate.</li><li>▪ <b>Activity:</b> Students will have an opportunity to see how machinery helps the flow of business operations.</li></ul>
<b>March 18</b>	<b>No Session, Spring Break</b>

<b>March 25</b> <b>3:30 – 5:00 PM</b>	<b>Techie Track #7: THINK TANK #1 – The Problem and Research</b> <ul style="list-style-type: none"> <li>▪ Students are presented with a problem and utilize Fiserv experts to develop their solution.</li> <li>▪ The process encourages innovation, critical thinking, and problem-solving skills while allowing students to witness the practical implications and impact of their chosen tools..</li> </ul>
<b>April 1</b> <b>3:30 – 5:00 PM</b>	<b>Techie Track #8: THINK TANK #2 – The Design</b> <ul style="list-style-type: none"> <li>▪ Students are presented with a problem and utilize Fiserv experts to develop their solution.</li> <li>▪ The process encourages innovation, critical thinking, and problem-solving skills while allowing students to witness the practical implications and impact of their chosen tools.</li> </ul>
<b>April 8</b> <b>3:30 – 5:00 PM</b>	<b>Techie Track #9: THINK TANK #3 – The Solution</b> <ul style="list-style-type: none"> <li>▪ Students are presented with a problem and utilize Fiserv experts to develop their solution.</li> <li>▪ The process encourages innovation, critical thinking, and problem-solving skills while allowing students to witness the practical implications and impact of their chosen tools.</li> </ul>
<b>April 15</b> <b>3:30 – 4:00 PM</b> <b>4:00 – 5:00 PM</b>	<b>Techie Track #10: Fiserv Future Techie Presentations and Closing Ceremony</b> <ul style="list-style-type: none"> <li>▪ Final prep on projects, 3:30-4 PM</li> <li>▪ Parents invited, 4-5 PM</li> <li>▪ Future Techies will present their final project.</li> </ul>