



**Write Code, Catch Bananas and Save the World** In a mysterious land—a bad gorilla has stolen the “Code Monkey’s” bananas. Learn to write simple code phrases to guide the monkey across the screen to retrieve his missing fruit. Along the way, you will meet friends, like “Trusty Turtle,” who will help you on your journey. Join us and learn real programming while playing a fun game.

**LOCATION:** Room 113 | West Hall  
**PRESENTERS:** Doug Streitenberger & Students | ESCC Computer Programming  
**SPONSOR:** Edison State Community College  
**SESSIONS 1, 2, 3**

**Use Your Superhero Powers** Come and see if you can beat “Mo the Motoman” robot weld and if you can outsmart “Jo the Fanac” robot in a game of tic-tac-toe. Use your superhero intelligence to program an industrial robot and watch it run. See if you can outsmart the robots or if they are smarter than you.

**LOCATION:** Room 421 | East Hall—Engineering Lab  
**PRESENTERS:** Dave Barth | ESCC Electrical Engineering Program  
**SPONSOR:** Edison State Community College  
**SESSIONS 1, 2, 3**

**Can You See Sound?** Have you ever wondered how you can hear different sounds? Ever wonder how your brain recognizes noise? Can you see noise? We’ll discover how it all works—and we will make a bunch of noise too! Come learn how this all ties to a fun and interesting career in healthcare as a Medical Assistant.

**LOCATION:** Room 333 | South Hall  
**PRESENTERS:** Yvonne Koors | ESCC Medical Assistant Program  
**SPONSOR:** Edison State Community College  
**SESSIONS 1, 2, 3**

**Adventures of Sam the Soybean** Have you ever wondered how your favorite foods are created? Follow the life of Sam the Soybean—and gain perspective into the process of turning a raw product into a delicious food product. We will explore the edible oil process through a guided activity and see who can create the best product utilizing Sam the Soybean. Join us and take home your product and a sweet treat from Cargill.

**LOCATION:** Room 121 | West Hall  
**PRESENTERS:** Leslie Milligan, Sara Wyenandt, Emma Schneider & Abigail Krieger  
**SPONSOR:** Cargill  
**SESSIONS 1, 2, 3**



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**Barbie Bungee Jumping** We are going to make math hands-on with games that challenge your brain. Let's throw it back to your childhood with toys from the past. Join us as we design a bungee-jump ride for a Barbie doll.

**LOCATION:** Room 511 | Emerson Center  
**PRESENTERS:** Lisa Hartwig & Students | ESCC Math Department  
**SPONSOR:** Edison State Community College  
**SESSIONS 1, 2, 3**

**Own Your Own Coffee Shop** Do you have what it takes run a coffee shop? You will become the owner of a virtual coffee shop. Buy raw ingredients including cups, coffee, milk and sugar—and mix them accordingly. Set a selling price and determine how to strike a balance between customer satisfaction and profit. Your mission is to earn as much cash as you can within 14 virtual days. How have your business choices affected your success? Can you become the next Starbucks®?

**LOCATION:** Room 202 | West Hall–2<sup>nd</sup> Floor  
**PRESENTERS:** Marva Archibald & George Markins | ESCC Business Program  
**SPONSOR:** Edison State Community College  
**SESSIONS 1, 2, 3**

**From Corn to Ice Cream—Agriculture is More Than Farming** Ever wonder what makes a corn kernel grow or what lies beneath the ground you walk on? Join us and learn about the agriculture “circle of life.” Follow a kernel of corn from the time that it is planted—until the time it turns into something delicious to eat. We will explore the technology and science that agriculture uses to create many of the products you use every day—and we will wrap up with a sweet treat.

**LOCATION:** Room 323 | East Hall  
**PRESENTERS:** Brad Lentz & Agribusiness Students | ESCC Agriculture Program  
**SPONSOR:** Edison State Community College  
**SESSIONS 1, 2, 3**

**Help Eddie—He’s Sick and He Can’t Get Up!** Come and play with “Eddie”—our human patient simulator. “Eddie” is a mannequin who can breathe and talk. “Eddie” is sick and needs your help. Use a stethoscope to listen to his heart and lungs. Explore nursing and join us for some fun, interactive activities.

**LOCATION:** Room 020B | North Hall  
**PRESENTERS:** Michelle Dancer | ESCC Nursing Program  
**SPONSOR:** Edison State Community College  
**SESSIONS 1, 2, 3**



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**“Roll” Into Creative Code** Curious about coding? Join us for a session where you can learn how to operate, drive and perform basic coding with Sphero Bots. These programmable robot balls are designed to inspire creativity and curiosity through coding and play. Complete hands-on activities and gain confidence in coding.

**LOCATION:** Tech Lounge | East Hall  
**PRESENTERS:** Jessica Adams  
**SPONSOR:** OSU | Miami County Extension Office  
**SESSIONS 1, 2, 3**

**Med Lab Tech—Is It for You?** Are you curious? Are you a problem-solver? When you have a question—do you just *have* to find the answer? Then a career in Medical Laboratory Technology may be a good fit for you. We will explore the physical and chemical properties of urines and how they relate to diseases. Come and explore this essential and ever-changing diagnostic profession.

**LOCATION:** Room 344 | South Hall  
**PRESENTERS:** Vickie Kirk & Hannah Shirk | ESCC Medical Lab Technician Program  
**SPONSOR:** Edison State Community College  
**SESSIONS 1, 2, 3**

**Brave the Winter Wonderland** Do you think you can survive the “winter wonderland?” You will have to design a house constructed entirely out of candy and other holiday treats—and your house must withstand the not-so-sweet elements of one of the winter wonderland’s most intense blizzards. Can your foundation, roof and snowwoman withstand the vicious winter weather? Put your skills to the test and come prove how tough you are.

**LOCATION:** Room 070 | Cafeteria  
**PRESENTERS:** Gina Ramsey, Lindzi Hoersten, Leslie Brown, Janell Miller, Taylor Schmitmeyer, Maria Vanderhorst, Beth Mescher, Jordan Rapking, Lauren Martin, Katie Hamilton, Amanda Akers & Riley Middendorf  
**SPONSOR:** Midmark Corporation  
**SESSIONS 1, 2, 3**

**Get a Clue—Ever Thought About Being a Crime Scene Investigator?** Trigger warning: *This session will include collecting evidence from a crime scene scenario and may include simulated bodily fluids and trace evidence commonly collected from sites of criminal offenses.* Participants will handle actual equipment and supplies used by investigators to collect forensic evidence. Dive into the exciting world of crime scene investigation (CSI) and learn how forensic scientists and investigators gather and analyze evidence from crime scenes to solve cases and ensure that the truth comes to light.

**LOCATION:** Room 442 | East Hall  
**PRESENTERS:** Laura Larger & Officer Lauren Kilburn | ESCC Public Safety  
**SPONSOR:** Edison State Community College  
**SESSIONS 1, 2, 3**



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**Hot Doritos and Takis Calorimetry aka Burn Lab** While you may not need to worry about calories like adults do—wouldn't it be interesting to explore how many calories are in two favorite snacks? Come and burn pieces of food and watch how the chemical energy stored in a molecular structure is released as heat and light. What food will light up a beaker as much as it lights up your taste buds?

**LOCATION:** Room 232 | West Hall—2<sup>nd</sup> Floor  
**PRESENTERS:** Kiala Clarke | ESCC Chemistry Department  
**SPONSOR:** Edison State Community College

**SESSIONS 1, 2, 3**

**Weather, Physics and Numerical Weather Prediction** Numerical weather models are like advanced calculators used by meteorologists to predict the weather. Mathematical equations are used to simulate how the atmosphere behaves. These models use current weather data, like temperature, humidity, and wind speed—and then apply physics to forecast future conditions. These models can predict changes in weather patterns—such as going from sunny skies to thunderstorms. Explore how these models work, why accurate data is critical, and how they help to prepare us for severe weather events.

**LOCATION:** Room 201 | West Hall—2<sup>nd</sup> Floor  
**PRESENTERS:** Brian Murphy | ESCC Mathematics Department  
**SPONSOR:** Edison State Community College

**SESSIONS 1, 2, 3**

**Racing Bristlebots—On Your Mark. Get Set. Go.** Join this fun activity where tiny robots made from toothbrush heads zoom around in races. It's like a mini robot Grand Prix! The bots are powered by vibrations and it's all about speed and agility. Build your own bristlebot and get ready for some high-speed toothbrush action.

**LOCATION:** Room 209 | West Hall—2<sup>nd</sup> Floor  
**PRESENTERS:** Marissa Hill | ESCC Career Pathways Advisor  
**SPONSOR:** Edison State Community College

**SESSIONS 1, 2, 3**

**Pharmacy Potions—Meds or Monsters: It's a Pharmacy Showdown** Explore the role of a pharmacist by diving into the world of compounding—the process of creating customized medications to meet patient specific needs. Get hands-on experience mixing ingredients—and measuring, blending, mixing, and testing your concoctions to ensure that they are safe and effective. You can then play our fast-paced med game that will keep you guessing.

**LOCATION:** Room 010A | Pavilion  
**PRESENTERS:** Logan Hunter, Stephanie Wead & Katrina Kremer  
**SPONSOR:** Wayne Healthcare

**SESSIONS 1, 2, 3**



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**AI Partners: Using AI for Creative Thinking** This session will demonstrate a variety of AI tools and methods to become more creative and critical thinkers. We will write, solve problems, create posters and signs, make comics, tell stories and more.

**LOCATION:** Room 321 | South Hall  
**PRESENTERS:** Brian Leingang | ESCC English Department  
**SPONSOR:** Edison State Community College  
**SESSIONS 1, 2, 3**

**The Triple Threat—Blur, Stumble and Puff** Can you handle this challenge? Put on the “drunk simulation” goggles, grab a straw, and prepare for a dizzying adventure. From blurry vision and wobbly legs to breathless moments—our session will have you laughing and learning.

**LOCATION:** Room 115 | West Hall  
**PRESENTERS:** Karen Droesch & Robyn Feitshans  
**SPONSOR:** Wayne Healthcare  
**SESSIONS 1, 2, 3**

**A Breath of Fresh Air** In respiratory care, professionals help patients with breathing difficulties by using specialized equipment and techniques. Learn how to intubate a manikin, which simulates placing a tube into a patient’s airway to ensure that they can breathe properly and then connect the “patient” to a ventilator. In this hands-on session, you will get to experience these critical procedures and understand how they help maintain proper oxygen levels and support patients in need of respiratory assistance.

**LOCATION:** Room 503 | Emerson Center  
**PRESENTERS:** Drew Dukes | ESCC Respiratory Program  
**SPONSOR:** Edison State Community College  
**SESSIONS 1, 2, 3**

**Helping People Get Better—Physical Therapy Assisting** You will use critical thinking and problem-solving skills to determine the best way to put on a shirt with a hemi-pelagic arm simulation. Experience how it feels to have a visual deficit with simulation glasses as you complete a crossword puzzle. Figure out the most appropriate exercise equipment and weights to use based on a patient diagnosis and the best balance tool and activity based on a patient’s ability. You will also determine the safest way for a patient to walk with crutches over and around various obstacles.

**LOCATION:** Aerobics Room | Emerson Center  
**PRESENTERS:** Sarah Young & Erynn Hanford | ESCC Physical Therapy Assisting Program  
**SPONSOR:** Edison State Community College  
**SESSIONS 1, 2, 3**



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**“All I Need is the Air That I Breathe?” But... “It Takes Two, Baby”** This interactive session will provide participants with an opportunity to see an actual pig heart/lung set (the closest to the human set as possible) and to study their basic anatomy. You will do a hands-on experiment demonstrating how we breathe and how an EMS provider assists a patient if they are barely breathing or not breathing at all.

**LOCATION:** Room 241 | West Hall–2<sup>nd</sup> Floor

**PRESENTERS:** Heidi Jones & Rick Heironimus | ESCC Emergency Medical Technician Program

**SPONSOR:** Edison State Community College

**SESSIONS 1, 2, 3**

**Making Coding a Reality with a Jousting Finch Robot** Have you ever wondered how to bend a robot to your will through code? Wonder no more with this interactive session featuring the highly customizable and programmable Finch robots. You will experience a modern approach to the medieval practice of jousting by reliably and accurately manipulating your Finch robot. Will you accept the challenge of knocking that smug knight off of their high horse?

**LOCATION:** Room 331 | South Hall

**PRESENTERS:** Levi Smith | ESCC Computer Information Systems Program

**SPONSOR:** Edison State Community College

**SESSIONS 1, 2, 3**

**When Life Gives You Lemons... Make Lemonade!** Build and run your own lemonade stand be the beach in the fictional town of Lemonsville. Manage inventory, perfect your recipe, determine pricing, advertise, upgrade and more. The goal is to make money and to learn that there is not lemon so sour that you can't make something resembling lemonade and sell it. Come and play with lemons without the sticky mess.

**LOCATION:** Room 221 | West Hall–2<sup>nd</sup> Floor

**PRESENTERS:** Sandra Streitenberger & Holly Stewart | ESCC Accounting Program

**SPONSOR:** Edison State Community College

**SESSIONS 1, 2, 3**

**Can You Help Save Casper the Dog?** Interested in working with animals? A career in veterinary medicine may be an option. Come visit with current Veterinary Technology students and perform CPR on a canine manikin and apply a bandage or splint. Learn the difference between fleas, ticks and mites—with the naked eye and under the microscope.

**LOCATION:** Room 314 | South Hall

**PRESENTERS:** Elizabeth Bingham & Vet Tech Students | ESCC Veterinary Technology Program

**SPONSOR:** Edison State Community College

**SESSIONS 1, 2, 3**



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**Color Blending Contest Using Pigments and Polymer** Compete against your peers to produce a color blend that most closely matches the target. A variety of pigment powders will be available to use in this activity. Remember—sometimes less is more.

**LOCATION:** Room 116 | West Hall

**PRESENTERS:** Chiriga Fisher & Julie Davis

**SPONSOR:** Advanced Composites

**SESSIONS 1, 2, 3**

**CAD/CAM/CNC Production** In this session, we will demonstrate the ease and speed of using a CAD/CAM package to go from concept to machining on a CNC machine. This interactive session will encourage participants to agree on an engraving design, utilize the CAD/CAM software to create the “G” code program and to ultimately manufacture the product on a CNC machine.

**LOCATION:** Room 421 | East Hall–Engineering Lab

**PRESENTERS:** Mike Rowe & Steve Sykes | ESCC Engineering Department

**SPONSOR:** Edison State Community College

**SESSIONS 1, 2, 3**

**Welding: Girls Can Too—And Better** Try your hand at virtual welding. Get a real feel for gas metal art welding with a Lincoln Electric Virtual Welder. Each participant will have the opportunity to make a couple of passes, in order to win the best weld. The top scoring participant in each session will win a prize. Welding is used in engineering, manufacturing, and building bridges and ships—as well as in the automotive and aerospace industries. AND—girls are often better at welding. Learn more about this great career and the opportunities that you could have.

**LOCATION:** Room 458 | East Hall

**PRESENTERS:** Janet Piechocki

**SPONSOR:** Hobart Institute of Welding Technology

**SESSIONS 1, 2, 3**

**Not All Carbs Are Created Equal** Carbs are everywhere and often get a bad rap. We will be using an iodine solution to test for carbohydrates to identify simple sugars/disaccharides (double sugar) and starch. Dietitians use this biochemistry and their knowledge of physiology to educate and counsel patients/clients to choose foods that work for them. For instance, people with diabetes need to avoid simple sugars and monitor their quantity of starch to manage their disease. Others blend their carbs for their best health.

**LOCATION:** Room 120 | West Hall

**PRESENTERS:** Christina Green, Khala Powell & Karyn Catrine

**SPONSOR:** Premier Health | Dietetic Internship Program

**SESSIONS 1, 2, 3**



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**Perfection Isn't Just a Game. What Can You Perfect?** Do you have what it takes to perfect our process? Can your team be the first to put all of the "Perfection" pieces into the board correctly—before your competition? Test your skills in teamwork, problem-solving, creativity and scientific thing to win this game. Put your ideas into action quickly, in order to beath the clock.

**LOCATION:** Room 211 | West Hall–2<sup>nd</sup> Floor

**PRESENTERS:** Kathy Davis, Staci Langenkamp, Kristen Osborne & Jodie Zofkie

**SPONSOR:** Crown Equipment

**SESSIONS 1, 2, 3**

**Surgical Sleuth: Master the Maze and Unwrap the Mystery** Imagine yourself in an operating room—tools in hand—navigating through a maze of mini challenges. Your mission? To use our cutting-edge laparoscopic trainer to skillfully remove tricky items with the precision of a pro. But wait—there's more! You will also tackle a daring task—unwrapping a series of items—showcasing your fine motor skills and surgical finesse.

**LOCATION:** Room 307 | South Hall

**PRESENTERS:** Dr. Kara Schultz & Heather Kremer

**SPONSOR:** Wayne Healthcare

**SESSIONS 1, 2, 3**

**Escape With Copeland** "Escape Rooms" provide fun and creative puzzles you must solve to get through barriers. Out "Escape" will challenge you to use different STEMM related technologies—computers, scanners, math, engineering, science, etc.—to find the clues that you need to solve the puzzle. Come "Escape" and have fun with us

**LOCATION:** Room 233 | West Hall–2<sup>nd</sup> Floor

**PRESENTERS:** Kelli McEldowney, Missy Grimes, Savita Maladkar, Sarah Huelskamp, Liz Miller & Mackenzie Hamilton

**SPONSOR:** Copeland

**SESSIONS 1, 2, 3**



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