HENRY FORD COLLEGE
FUTURE DRIVEN

HAWK CAREER EXPLORATION ACADEMY

Session descriptions, dates sessions are available, age groups, and prices are listed below:

ARTS

5101: Culinary Explorer
June 24-27, 2024
Incoming 6th-8th Graders
$125

This exploratory opportunity is truly a culinary adventure for young enthusiasts eager to explore the art of cooking and baking. With a well-balanced schedule combining hands-on cooking sessions and essential kitchen fundamentals, participants will gain a comprehensive understanding of the culinary world.

By incorporating initiatives like farm-to-fork, nutrition, and healthy eating, the session goes beyond simply teaching cooking techniques. It instills in participants a deeper appreciation for the origins of food and its impact on our well-being, fostering lifelong healthy eating habits.

Empowering kids to take charge of the kitchen sparks their creativity and builds confidence as they experiment with flavors and ingredients. Meanwhile, the focus on baking not only teaches essential skills but also lays a solid foundation for those with a passion for pastry arts.

The culmination is a parent luncheon on the final day that provides participants with a platform to showcase their newfound skills and share their culinary creations with loved ones.

Overall, this opportunity offers an immersive experience that goes beyond teaching cooking and baking skills. It nurtures a deeper understanding and passion for the culinary arts, setting participants on a path of culinary exploration and discovery.

Note, students will be **required** to wear pants and closed-toe shoes.

Discover the World of Media as an HFC Film and Media (FAM) Explorer!
July 15-18, 2024
Incoming 9th-12th Graders
$125

Got a passion for film, TV, audio, and other media? Here's your ticket to the action! Hosted by the Henry Ford College Media Communication Arts Department, we're rolling out the red carpet for you to explore everything from the magic of film and TV to the beats of a live radio station, and the craft behind creative storytelling through scripts and podcasts. It's the ultimate in media content creation!

Ever dreamt of voicing animated characters, announcing the latest news or sports, or mastering the art of the interview for your next podcast? We've got you covered. Dive into the roles of your favorite actors, directors, cinematographers, writers, influencers, and DJs. You'll get your hands on the real work: scriptwriting, shooting, lighting, editing, and even stepping in front of the camera or behind the mic.

And there's a bonus! Your creativity might just hit the airwaves on our campus station, WHFR-FM, or light up the screen for friends and family to see. Get ready for four days filled with content creativity, learning, and fun. It's your time to shine as an HFC Film and Media (FAM) Explorer... Lights, camera, action!

ENGINEERING, TECHNOLOGY, AND TRADES

Automated Systems and Robotics Explorer
July 8-11, 2024
Incoming 6th-8th Graders
$125

In this dynamic workshop, participants engage in practical projects to learn how automated systems and robotics make a positive impact on the world.

The first project involves creating an autonomous garden system, where you will use a moisture sensor and microcontroller programming to control a water pump, automating soil moisture

(Automated Systems and Robotics Explorer continued)

management. This project not only teaches essential engineering concepts but also demonstrates how technology can be leveraged to conserve resources and promote environmental stewardship.

The second project focuses on building a smart robot car, equipped with sensors to detect obstacles, and programmed to navigate autonomously. These activities offer hands-on experience in real-world applications of engineering. Through experimentation and iteration, participants will hone their problem-solving skills to showcase the potential of robotics around mobility and safety.

Trade Explorer: Youths and Shop
June 24-27, 2024
Incoming 9th-12th Graders
$125

In this session, youth will have the opportunity for hands-on learning and skill development in manufacturing. Learning about machining and metalworking not only provides practical skills but also fosters creativity through the creation of small projects.

Youth will learn about safety and proper machine shop etiquette while getting a chance to create their projects using machine tools. It is an excellent introductory to this trade while keeping their projects as a lasting reminder of their achievements and the skills they've acquired during the session.

This session will be an enriching experience that offers both practical knowledge and the opportunity for creativity and self-expression.

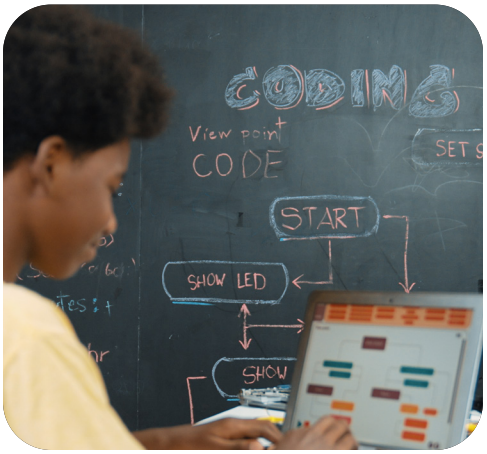
Mobile App Inventor
June 24-27, 2024
Incoming 6th-8th Graders
$125

Hey there, future tech wizards! Get ready to dive into an exciting adventure designed just for you! We're thrilled to introduce you to the amazing world of mobile app development using MIT's App Inventor online software.

Imagine this: you'll be crafting your very own mobile applications from scratch, all with the power of simple, easy-to-use code blocks. Step by step, you'll learn the ins and outs of app design and creation, unlocking your creativity along the way.

But here's the coolest part – you won't just be stuck behind a screen. Oh no! You'll have the chance to test your creations on real Android phones, bringing your ideas to life in the palm of your hand.

Get ready for a week filled with excitement, creativity, and learning like never before. By the end of it, you'll be equipped with the skills and knowledge to develop your own apps, ready to take on the digital world with confidence.



Intro to Robots
June 24-27, 2024 or July 15th-18th, 2024
Incoming 6th-8th Graders
$125

Welcome to Intro to Robots! This session offers an engaging experience where youth will learn how to engineer robots powered by solar energy. Through hands-on activities, youth will develop essential skills such as manual dexterity, problem-solving, logical thinking, and self-confidence.

Our program emphasizes the importance of teamwork and collaboration, as youth work together to design and build their robots. With 12 different robot-building projects available, youth can explore various concepts in mechanics and engineering.

Our entry-level projects are perfect for youth providing a fun and accessible introduction to robotics. For others seeking a challenge, our advanced-level projects will test their manipulative skills and push them to think creatively.

(Intro to Robotics continued)

Throughout the session, youth will not only enhance their STEM skills but also gain a deeper appreciation for the exciting world of robotics. Join us for an unforgettable journey of learning, exploration, and fun!

Discovering XCode and Swift App Development
July 15-18, 2024
Incoming 9th-12th Graders
$125

Hey there, future app creators! Are you ready to embark on an exhilarating journey into the realm of app development? Join us for our "Discovering XCode and Swift App Development" session, where you'll unlock the secrets of crafting apps specifically for iPhones, iPads, and other Apple devices.

Get ready to harness the power of XCode, the ultimate playground for app development on Apple's platform. You'll also dive deep into Swift basics, the language that brings your app ideas to life with its magic touch. With the guidance of our expert instructor, you'll be empowered to turn your boldest app concepts into reality.

Don't let this opportunity slip through your fingertips! This week-long adventure promises to be filled with invaluable learning experiences, thrilling exploration, and hands-on app development action. Get ready to roll up your sleeves and dive headfirst into the world of app creation for Apple devices.

HEALTH AND HUMAN SERVICES

Youth Leading Youth
June 24-27, 2024 or July 15-18, 2024
Incoming 9th-12th Graders
$125

Welcome to our K-12 Teaching Profession Exploration Session! Get ready for an experience where you'll discover the excitement and impact of hands-on teaching. Here's a glimpse of what each day will entail:

Youth Leading Youth continued)

Interconnected Activities: Each day, students will explore how various academic subjects – such as science, literacy, math, and social studies – can be interconnected through hands-on activities. Through engaging discussions and interactive sessions, they'll learn how to integrate these activities to enhance learning in the classroom.

Pre-Education Themes: Throughout the session, students will delve into different pre-education themes, including science, math, literacy/social studies, and art. By exploring these themes, they'll gain a deeper understanding of their relevance and application in educational settings.

Theory and Practice: Students will have the opportunity to apply theoretical concepts into practice through hands-on activities.
By participating in these activities, they'll develop a better understanding of student engagement, critical thinking, and problem-solving skills – essential qualities for future educators, babysitters, or camp counselors.

Join us for an unforgettable journey where you'll not only learn about the teaching profession but also gain practical skills that will serve you well in various roles in childcare and education.

SCIENCE

Bioblitz Explorer
July 15-18, 2024
Incoming 9th-12th Graders
$125

At BioBlitz! Students will have the opportunity to explore local habitats and animal biodiversity through activities in a laboratory setting and outdoor adventures around campus and at the Environmental Study Area on the University of Michigan Dearborn's campus. Youth will end their exciting week with a trip to the Detroit Zoo.

Throughout the week, youth will learn about our local aquatic ecosystems by conducting water quality tests and examining some of our freshwater macroinvertebrates under the microscope. We will take nature walks and learn how to identify local trees and wildflowers. Students will discuss the important relationships between our local pollinators and flora and build their pollinator hotels to take home with them. Youth will have the opportunity to learn about the diversity of animal form and function by studying preserved specimens and skulls and discussing how different species play different roles within their ecosystems. Other activities include dissecting owl pellets, making bird feeders, and learning about how we can make a difference in protecting our local habitats and animal biodiversity.

For more information, contact Cassandra Myers at 313-317-6604 or email cmyers17@hfcc.edu