



# College for Kids \* Summer 2018



### Tiny Tunes Piano Pre-School Beginner, Ages 3-4 • KIDS-9204

Designed specifically for preschoolers. This is a BIG FUN, delightfully simple piano program. Lessons include everything needed to help jump start your child's musical education. By the end of the course, your child will be able to sing and perform simple songs like Mary had a Little Lamb, Twinkle Twinkle Little Star, and/or Jingle Bells. Music increases attention span, logic, and reasoning skills. Parents must attend. \*No class\* dates will be announced in class. (6 Contact Hours)

62045.....Sa.....5/5/18-6/16/18.....10:00 AM-10:55 AM
\$85.....SOU.....P143.....TINY TUNES PIANO PRG
62046.....M.....6/25/18-8/6/18.....10:00 AM-10:55 AM
\$85.....SOU.....P143.....TINY TUNES PIANO PRG

### Tiny Tunes Piano "Young 5S" Beginner, Ages 5-6 • KIDS-9205

Designed specifically for children who are just learning how to read and write. Introduce your child to the world of music with all the fundamentals needed to encourage, nurture, and motivate learning and have fun. At course end, your child will be able to sing and play a ton of Tiny Tunes. Children who study music at an early age come out ahead in math and science! Parents welcome. (6 Contact Hours)

62048.....Sa.....5/5/18-6/16/18.....11:00 AM-11:55 AM
\$85.....SOU.....P143.....TINY TUNES PIANO PRG
62049.....M.....6/25/18-8/6/18.....11:00 AM-11:55 AM
\$85.....SOU.....P143.....TINY TUNES PIANO PRG

### Tiny Tunes Piano Intermediate, Ages 6-7 • KIDS-9214

Designed specifically for the advancing beginner. Classes are faster paced and big fun for students and parents alike. Lessons include line and space note recognition, two-handed playing, skip rhythms, flashcards, cross-hand techniques, and some very interesting and exciting Tiny Tunes. Studying music builds self-esteem, memory, and verbal ability. (6 Contact Hours)

62043.....Sa.....5/5/18-6/16/18.....12:00 PM-12:55 PM
\$85.....SOU.....P143.....TINY TUNES PIANO PRG
62044.....M.....6/25/18-8/6/18.....12:00 PM-12:55 PM
\$85.....SOU.....P143.....TINY TUNES PIANO PRG

### Make Your First 3D Video Game, Ages 8-10 • KIDS-8235B



In this Black Rocket classic, you will go well beyond the limitations of the traditional 2D game design classes and create an immersive 3D world. Students will learn the physics behind 3D games, explore beginner event scripting, level design, controlling the flow of gameplay, and storytelling. Student created games will be available on a password protected Black Rocket website to share with friends and family. Students will work in pairs or teams for most of the program. (15 Contact Hours)

62192.....MTWThF.....6/18/18-6/22/18.....9:00 AM-11:55 AM
\$249.....CTR.....H214.....Staff

### Make Your First 3D Video Game, Ages 11-14 • KIDS-8236B



In this Black Rocket classic, you will go well beyond the limitations of the traditional 2D game design classes and create an immersive 3D world. Students will learn the physics behind 3D games, explore beginner event scripting, level design, controlling the flow of gameplay, and storytelling. Student created games will be available on a password protected Black Rocket website to share with friends and family. Students will work in pairs or teams for most of the program. (15 Contact Hours)

62194.....MTWThF.....6/18/18-6/22/18.....1:00 PM-3:55 PM
\$249.....CTR.....H214.....Staff

### Genius LEGO® Engineering, Ages 6-10 • KIDS-8251

Enter the exciting universe of LEGO® learning! Students journey into the field of engineering using our special LEGO® Education kits. This is an exciting way for students to navigate the world of engineering while combining fun and active learning. Students will enjoy hands-on learning as the engaging LEGO® building projects take them on an exploration of STEAM (Science Technology Engineering Art Math) concepts in the area of LEGO® engineering. Students will learn through guided exploration into new concepts, and they will be challenged to develop their imagination and creative ideas into working designs. Students learn a variety of LEGO® engineering skills as they work with wheels and axles, gears, levers and pulleys and much more while learning to be a part of a team as they work in groups of 2-3 students per kit. New builds every time! (15 Contact Hours)



62031.....MTWThF.....6/25/18-6/29/18.....12:30 PM-3:25 PM
\$175.....CTR.....H219.....Genius Education

### App Attack! Ages 8-10 • KIDS-8206

Take the first steps into the world of mobile app design and customize your own game app! Using a specialized app and game development tool, students will explore the world of web-based apps. In addition to learning the basics of mobile app design and game development, you will also see firsthand how the world of app publishing functions. Student-created apps will be accessible on a private site and can be played on any mobile device or computer. NO prior experience is necessary, and students do not need to own a smartphone or tablet to take the class. Students will work in pairs or teams for most of the program. (15 Contact Hours)

62021.....MTWThF.....6/25/18-6/29/18.....9:00 AM-11:55 AM
\$249.....CTR.....H214.....Staff

### App Attack! Ages 11-14 • KIDS-8208

Take the first steps into the world of mobile app design and customize your own game app! Using a specialized app and game development tool, students will explore the world of web-based apps. In addition to learning the basics of mobile app design and game development, you will also see firsthand how the world of app publishing functions. Student-created apps will be accessible on a private site and can be played on any mobile device or computer. NO prior experience is necessary, and students do not need to own a smartphone or tablet to take the class. Students will work in pairs or teams for most of the program. (15 Contact Hours)

62022.....MTWThF.....6/25/18-6/29/18.....1:00 PM-3:55 PM
\$249.....CTR.....H214.....Staff

### Genius Blast Off Rocketry! Ages 8-12+ • KIDS-8249

Shoot for the sky! Students learn about rockets and rocketry as they assemble, design, and prepare their own rocket for launch day. An experienced Genius Education rocketry instructor supervises the launch site. Students prepare their own rockets and use a remote launch trigger after the instructor prepares each rocket on the launch site. Each student can retrieve their rocket to keep and take home to show friends and family! (15 Contact Hours)

62030.....MTWThF.....6/25/18-6/29/18.....9:00 AM-11:55 AM
\$175.....CTR.....H219.....Genius Education

### Goldie Blox: Engineering for Girls! Ages 4-10 • KIDS-8194

Discover Goldie Blox as you learn to build a spinning machine, parade float, and dunk tank. Develop spatial skills, engineering principles, and confidence in problem solving through a variety of design ideas and unlimited building possibilities. Goldie Blox's goal is to get students building by tapping into their strong verbal skills with stories and construction sets. Each student will take home all three sets of Goldie Blox upon course completion for more engineering fun at home! (15 Contact Hours)

62038.....MTWThF.....7/9/18-7/13/18.....9:00 AM-11:55 AM
\$169.....SOU.....C119.....Staff

### Genius Pullback Car Engineering, Ages 6-10 • KIDS-8188A

Build and keep your own motorized pullback cars! Pullback Car Engineering is a popular STEAM enrichment class that develops problem solving and creativity as students build their very own motorized pullback cars specifically selected to fit each student's grade and building skill level. Students will build their own fleet of cars using a design pamphlet for each vehicle and become junior engineers challenged to design new creations using their BanBao car kits. Over the course of this class, students participate in activities and experiments, challenges and races designed to demonstrate science and engineering concepts and laws such as gravity, potential and kinetic energy. BanBao kits are made of quality bricks that are comparable to and fully compatible with other major brands like LEGO®. Students take home everything they build! New builds every time! (15 Contact Hours)

62028.....MTWThF.....7/9/18-7/13/18.....9:00 AM-11:55 AM
\$175.....CTR.....H219.....Genius Education

### Genius Engineering Adventure, Ages 6-10 • KIDS-8250

Build and keep your own collection of toy brick kits. Genius Engineering is perfect for kids who simply can't get enough toy brick building and play! Students develop problem solving and creativity as they build a variety of kits as designs specifically selected to fit each student's grade and building skill level. Students assemble all their builds using a design pamphlet for each kit and become junior engineers challenged to design new creations using their kits. Over the course of the class, students participate in activities and experiments, challenges and races designed to demonstrate science and engineering concepts. Kits are made of toy bricks that are comparable to and compatible with other major brands like LEGO®. Students take home everything they build! New builds every time! (15 Contact Hours)

62029.....MTWThF.....7/9/18-7/13/18.....12:30 PM-3:25 PM
\$175.....CTR.....H219.....Genius Education

### Virtual Reality! The Future Is Now! Ages 8-10 • KIDS-8247

Embark on an EPIC adventure in virtual reality! In this cutting-edge class, you will learn the foundations of VR design by creating your own virtual worlds, exploring simulated environments, and crafting memorable 3D experiences. At the end of the week, take home your first cardboard VR headset to show friends and family the new worlds you created. VR projects can be viewed on a website or a mobile device. Students do not need a mobile device to take the class, but to use the VR headset, student will need access to an Android or Apple mobile device. Students will work in pairs or teams and VR projects will be available on a password protected Black Rocket website to share with friends and family. (15 Contact Hours)

62035.....MTWThF.....7/9/18-7/13/18.....9:00 AM-11:55 AM
\$269.....CTR.....H214.....Staff

### Virtual Reality! The Future Is Now! Ages 11-14 • KIDS-8248

Embark on an EPIC adventure in virtual reality! In this cutting-edge class, you will learn the foundations of VR design by creating your own virtual worlds, exploring simulated environments, and crafting memorable 3D experiences. At the end of the week, take home your first cardboard VR headset to show friends and family the new worlds you created. VR projects can be viewed on a website or a mobile device. Students do not need a mobile device to take the class, but to use the VR headset, student will need access to an Android or Apple mobile device. Students will work in pairs or teams and VR projects will be available on a password protected Black Rocket website to share with friends and family. (15 Contact Hours)

62036.....MTWThF.....7/9/18-7/13/18.....1:00 PM-3:55 PM
\$269.....CTR.....H214.....Staff

### Small Engine Repair for Teens Ages 14-17 • KIDS-8190

This course offers students exposure to the various pieces of shop equipment/tools and details of small engine repair. It will focus on the servicing and repairing of two- and four-cycle engines. Hands-on activities will include disassembly, inspection for wear, assembly, and proper serviceability techniques using appropriate materials and proper check procedures for service/repair are stressed. (18 Contact Hours)

62042.....M.....7/9/18-8/13/18.....6:00 PM-8:55 PM
\$239.....SOU.....M105.....Houchen, E.

### Code Breakers, Ages 8-10 • KIDS-8204

Calling all future coders, programmers, and designers! Learn the basics of coding languages like HTML, JavaScript, and CSS through a series of web projects and design challenges each day and be on your way to becoming the next tech star! Whether you want to be the next Mark Zuckerberg or the high school student who just made \$1 million for programming in his bedroom, this course has the essentials you need to begin your journey. Projects will be available on a Black Rocket website to share with friends and family. Students will work in pairs or teams for most of the program. (15 Contact Hours)

62024.....MTWThF.....7/16/18-7/20/18.....9:00 AM-11:55 AM
\$249.....CTR.....H214.....Staff

### Code Breakers, Ages 11-14 • KIDS-8205

Calling all future coders, programmers, and designers! Learn the basics of coding languages like HTML, JavaScript, and CSS through a series of web projects and design challenges each day and be on your way to becoming the next tech star! Whether you want to be the next Mark Zuckerberg or the high school student who just made \$1 million for programming in his bedroom, this course has the essentials you need to begin your journey. Projects will be available on a Black Rocket website to share with friends and family. Students will work in pairs or teams for most of the program. (15 Contact Hours)

62023.....MTWThF.....7/16/18-7/20/18.....1:00 PM-3:55 PM
\$249.....CTR.....H214.....Staff

### Advanced 3D Video Game with Unity, Ages 8-10 • KIDS-8241

Are you ready to take your game design skills to another level? With Unity, an industry-grade design software, aspiring game designers will learn level editing, 3D modeling, intermediate event scripting, and the impact of game play on user experience. Student-created games will be available on a password protected Black Rocket website to share with friends and family. Students will work in pairs or teams for most of the program. (15 Contact Hours)

61898.....MTWThF.....7/23/18-7/27/18.....9:00 AM-11:55 AM
\$249.....CTR.....H214.....Staff

### Advanced 3D Video Game with Unity, Ages 11-14 • KIDS-8242

Are you ready to take your game design skills to another level? With Unity, an industry-grade design software, aspiring game designers will learn level editing, 3D modeling, intermediate event scripting, and the impact of game play on user experience. Student-created games will be available on a password protected Black Rocket website to share with friends and family. Students will work in pairs or teams for most of the program. (15 Contact Hours)

62017.....MTWThF.....7/23/18-7/27/18.....1:00 PM-3:55 PM
\$249.....CTR.....H214.....Staff

### CAM—Computer Aided Manufacturing with CNC Engravers, Ages 11-14 • KIDS-8253

Learn about CAM—Computer Aided Manufacturing and G-Code programming while learning to use a CNC machine to engrave various materials with your name and trendy sayings. Discover the basis for 3D printing applications and product development. Students keep all items they create in class. (15 Contact Hours)

62170.....MTWThF.....7/23/18-7/27/18.....9:00 AM-11:55 AM
\$145.....SOU.....C123.....Staff

### ROBLOX Makers-Coders-Entrepreneurs! Ages 8-10 • KIDS-8243

Discover how to code in the Lua language while playing and designing worlds in ROBLOX, an online universe where you can create anything you dream of. This new class combines game design concepts, coding, and fun! Young entrepreneurs will also learn how to navigate ROBLOX's fast-growing marketplace to publish their games. Student created games will be available on a password protected Black Rocket website to share with friends and family. Students will work in pairs or teams for most of the program. (15 Contact Hours)

62193.....MTWThF.....7/30/18-8/3/18.....9:00 AM-11:55 AM
\$249.....CTR.....H214.....Staff

### ROBLOX Makers-Coders-Entrepreneurs! Ages 11-14 • KIDS-8244

Discover how to code in the Lua language while playing and designing worlds in ROBLOX, an online universe where you can create anything you dream of. This new class combines game design concepts, coding, and fun! Young entrepreneurs will also learn how to navigate ROBLOX's fast-growing marketplace to publish their games. Student created games will be available on a password protected Black Rocket website to share with friends and family. Students will work in pairs or teams for most of the program. (15 Contact Hours)

62039.....MTWThF.....7/30/18-8/3/18.....1:00 PM-3:55 PM
\$249.....CTR.....H214.....Staff

### Code Your Own Adventure! Interactive Storytelling, Ages 8-10 • KIDS-8237A

Watch as the characters in your imagination come to life in this unique course that blends classic storytelling with animation techniques and coding. Start with a concept, design the characters, and choose not just one ending, but many! Learn how to create your own text-based adventure games with variables, conditional logic, images, HTML, CSS, and JavaScript. Students will work in pairs or teams for most of the program. (15 Contact Hours)

62026.....MTWThF.....8/6/18-8/10/18.....9:00 AM-11:55 AM
\$249.....CTR.....H214.....Staff

### Energy Makers! Ages 9-12 • KIDS-8191A

Alternative forms of energy will be realized as students build and race their very own fuel cell car when they pour water in and watch it separate into hydrogen and oxygen, forming a gas to power their vehicles across the floor. Additional activities include learning about wind energy as students build their own wind turbines. Students take home both kits upon class completion. (12 Contact Hours)

62037.....MTWThF.....8/6/18-8/9/18.....9:00 AM-11:55 AM
\$109.....SOU.....C119.....Staff

### Code Your Own Adventure! Interactive Storytelling, Ages 11-14 • KIDS-8237B

Watch as the characters in your imagination come to life in this unique course that blends classic storytelling with animation techniques and coding. Start with a concept, design the characters, and choose not just one ending, but many! Learn how to create your own text-based adventure games with variables, conditional logic, images, HTML, CSS, and JavaScript. Students will work in pairs or teams for most of the program. (15 Contact Hours)

62027.....MTWThF.....8/6/18-8/10/18.....1:00 PM-3:55 PM
\$249.....CTR.....H214.....Staff

### Toy Designers: Make Your First Toy, Ages 8-10 • KIDS-8246

Calling all boys and girls to be toy designers of the future! In this class, if you can dream it, you can make it—create your first action figure, superhero, make a new toy or figurine. By conceptualizing and designing their own 3D models, students will learn how to sculpt, texture, and render their first toy! No prior experience is necessary, and 3D designs will be available on a password protected Black Rocket website to share with friends and family. (3D prints may be purchased separately through an online provider.) Students will work in pairs or teams for most of the program. (15 Contact Hours)

62041.....MTWThF.....8/13/18-8/17/18.....9:00 AM-11:55 AM
\$249.....CTR.....H214.....Staff

### Maker Labs: Make Your First 3D Creation! Ages 11-14 • KIDS-8217A

Calling all boys and girls who want to be the designers of the future! In this class, if you can dream it, you can make it—create your first action figure, design custom jewelry, make a new toy, learn how to prepare a model for 3D printing, and create a design portfolio to showcase your work! Using professional-level modeling software, kids will sculpt, texture, and render their own 3D creation. No prior experience is necessary, and 3D designs will be available on a password protected Black Rocket website to share with friends and family. (3D prints may be purchased separately through an online provider.) Students will work in pairs or teams for most of the program. Returning students can create more advanced projects that build on previous years. (15 Contact Hours)

62191.....MTWThF.....8/13/18-8/17/18.....1:00 PM-3:55 PM
\$249.....CTR.....H214.....Staff



## CLASS LOCATIONS

South Campus (SOU)  
14500 E. 12 Mile Road • Warren, MI 48088

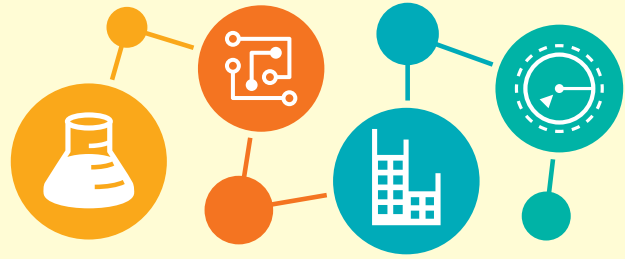
Center Campus (CTR)  
44575 Garfield Road • Clinton Township, MI 48038

## To REGISTER:

Call 586.445.7999 or visit  
[www.macomb.edu/continuinged](http://www.macomb.edu/continuinged)

Partial scholarships may be available.

Email [C4K@macomb.edu](mailto:C4K@macomb.edu) or visit [www.macomb.edu](http://www.macomb.edu)  
and search C4K Scholarship for application.



## STEM CAREER EXPLORATION LAB

STEM Career Exploration Lab (CEL) for middle school (6th–9th grade) students and their parents. Students and parents design, test and build three projects (Hovercraft, Catapult and Safety Helmet) while learning about Engineering careers. This is a FREE 4-hour class sponsored by the Center for Advanced Automotive Technology (CAAT).

CAAT is a National Science Foundation Advanced Technological Education Center. Pre-registration is required. Class size is limited to 20 students and 20 parents. Classes are held at Macomb's South Campus, Room R112.

**Three classes are offered:**  
**Wednesday, June 27, 9 am–1 pm**  
**Monday, July 30, 9 am–1 pm**  
**Monday, August 20, 9 am–1 pm**

To register, please contact:  
 Saleta McMurray, STEM Outreach Coordinator,  
 Center for Advanced Automotive Technology,  
 Macomb Community College  
 586.445.7127

Center for Advanced  
 Automotive Technology  
 C - A - A - T

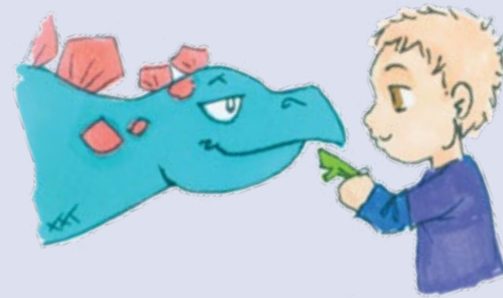


**Did you know we can customize classes for your youth, school and Scout group?**  
 Contact: C4K@macomb.edu or call 586.498.4100

## Macomb Community College's C4K: College for Kids

provides educational opportunities and a college campus connection for students ages 3 to 17. Through fun activities and enriching, memorable experiences, students learn and succeed through personal achievement. Partial scholarships may be available.

For information, contact the program coordinator at 586.498.4100 or C4K@macomb.edu.



## READING ENRICHMENT

Presented by University of Detroit Mercy at Macomb Community College's Center Campus.

**Reading skills programs for elementary, middle, high school and college students.**

- Comprehension
- Study Skills
- Phonics
- Build Vocabulary & Fluency
- Speed Reading
- Develop a Lifelong Love of Reading

For more information and to register before classes fill, call 800.978.9596

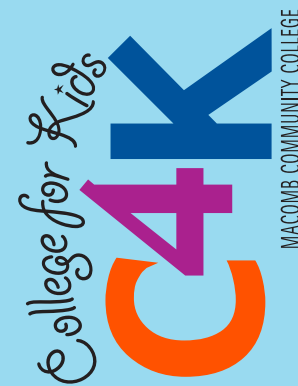


Macomb Community College  
 Discover. Connect. Advance.<sup>SM</sup>  
 14500 E. 12 Mile Rd.  
 Warren, MI 48088-3896

ADDRESS SERVICE REQUESTED

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GRAFI023-MA



Macomb's College for Kids offers fun and educational programs for students ages 3–17.

- App Development
- Coding
- Energy Makers
- Goldie Blox Engineering for Girls
- LEGO® Engineering
- Maker Labs
- Pullback Car Frenzy
- ROBLOX®
- Small Engine Repair for Teens
- Tiny Tunes Piano
- 3D Video Game Design
- Virtual Reality



## Summer 2018



College for Kids  
**C4K**  
 MACOMB COMMUNITY COLLEGE



Workforce & Continuing Education  
 MACOMB COMMUNITY COLLEGE

Discover. Connect. Advance.<sup>SM</sup>

www.macomb.edu/continuing