Join your friends and make new ones this summer while you explore the exciting worlds of science, technology, engineering and math!

In partnership with Michigan universities, corporations, and nonprofits, we are able to offer metropolitan Detroit youth incredible opportunities this summer!

ENROLLMENT STARTS April 17, 2017

Check inside this booklet for a list of available camps, tuition & application processes
MISSION
The mission of **DAPCEP** is to increase the number of historically underrepresented students who are motivated and prepared academically to pursue degrees leading to careers in Science, Technology, Engineering and Mathematics (STEM) related fields through K-12 supplemental educational programming.

ADMISSIONS POLICY
The **DAPCEP** admission is designed to maximize fairness and consideration of all eligible applicants. Each Program Director or selection committee seeks to have a qualified, balanced, broad base of students, each of whom must meet the eligibility requirements for the desired program. Typically, each program has more applicants than it has allotted spaces. While every consideration is given to maximize total enrollment with as many students as possible receiving their first selection, the numerical realities of the program and its funding will result in some students not getting their desired program or not even admitted to **DAPCEP** at all.

We encourage all students who are not admitted to reapply during the next enrollment period.

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- **SUMMER APPLICATION PROCESS.** .......................... 3
- **UNIVERSITY/PROGRAM PROVIDER APPLICATIONS.** 4
- **FINANCIAL AID PROCESS.** ................................. 5
- **COURSE LISTINGS.** ........................................... 6 & 7
- **COURSE OFFERINGS.** ....................................... 8
- **DAPCEP PARENT ADVISORY COMMITTEE.** ....... 20
There are two methods to apply for the programs/camps listed in the DAPCEP Course Booklet. Students will complete an online application with DAPCEP OR directly with the university or program provider hosting the camp. Our course booklet contains detailed course information – dates, times course descriptions, locations, application method, and payment process. Please see the next two pages for instructions for each application process.

### DAPCEP Applications

**To apply online with DAPCEP:**
1. Go to [www.dapcep.org](http://www.dapcep.org), click APPLY.
2. New users will be required to create an account. Existing users should login with username/password. If you do not remember the username and/or password, please contact the DAPCEP office.
3. Complete all sections of the online applications.
4. Once all sections are complete, submit your application.
5. Applications will be reviewed by the Program Directors.
6. Acceptance/Denial notifications will be mailed or emailed by the week of May 22, 2017.

**Payment process for DAPCEP Applications:**
- Payments are due after your at the time the application is submitted online.
- Payments can also be mailed to the DAPCEP Office or made in-person.
- **CASHIER CHECKS** or **MONEY ORDERS** will only be accepted.

---

**DAPCEP Office:** 9am - 4pm  
_The Palms Building - 2111 Woodward Ave. Suite 506, Detroit, MI 48201_  
_info@dapcep.org - 313-831-5633_
UNIVERSITY/PROGRAM PROVIDER Applications

To apply directly with the University or Program Provider:
• Each university or provider will have varying submission requirements. Please ensure that you pay attention to due dates.
• Requirements may include but are not limited to report card, transcript, letter of recommendation, or essay.
• Go to the application link provided for each course.
• Follow the instructions, on the university or program provider website. Program contacts are listed in the course booklet if you have any questions.
• Once submitted, applications will be reviewed by the Program Directors.
• Program providers will mail or email acceptance/denial notifications.

Payment process for University or Program Provider Applications:
• The university/program provider website will provide detailed payment requirements. The website will also provide acceptable payment methods.
• Each payment process will vary by provider. Some providers will require payment after acceptance. However, others may require a deposit or full payment upon application completion.

WAYNE STATE UNIVERSITY
(For all courses)
Program Director: Jasmine Roberson (313)731-2184

UNIVERSITY OF DETROIT MERCY
Program Director: Pamela Todd (313)993-3374

MICHIGAN STATE UNIVERSITY
(4H Discovery Camp ONLY)
Program Director: Insa Raymond (517)439-9301
For all other courses dept. and contact vary. Please visit: http://spartanyouth.msu.edu

LAWRENCE TECH UNIVERSITY
Program Director: Lisa Kujawa (248)204-2018

FRESH NATION
Program Director: Delvis Nixon (313)663-9700

NOMA
info@nomadetroit.org

MICHIGAN TECHNOLOGICAL UNIVERSITY
Program Director: Rose Martell (906)487-2219

OAKLAND UNIVERSITY
Program Director: Marianne Donoghue (248)370-2217

FOCUS HOPE
Program Director: Raylynn Henry (313)494-4422

ACCELER8KID
Program Director: Thanh Tran (248)910-0475

UNIVERSITY OF MICHIGAN ANN ARBOR
Program Director: Hans Sowder (734)647-7124

UNIVERSITY OF MICHIGAN DOWNTOWN DETROIT
(734)764-2951

DETROIT ZOOLOGICAL SOCIETY
Program Director: Sandra Ling (248)336-5815
Families that wish to apply for financial aid must complete the attached forms after enrolling students in the DAPCEP online system or completing Program Application as instructed. We have limited financial assistance for families who meet our criteria to reduce the application or program fees. The available financial awards are as follows:

<table>
<thead>
<tr>
<th>PROGRAM</th>
<th>FULL COST</th>
<th>MAXIMUM SCHOLARSHIP</th>
<th>IF APPROVED, FINAL AMOUNT DUE</th>
</tr>
</thead>
<tbody>
<tr>
<td>(2nd - 12th Grades)</td>
<td>Cost Varies</td>
<td>Awards can range from 25-75% of the total cost. The maximum award will not exceed 75% of total.</td>
<td>Parents are responsible for the remaining balance before class begins. Will not exceed 75% of total. Example: Cost of a camp is $500, the financial award may be $375, the parent will have to pay $125</td>
</tr>
</tbody>
</table>

The completed financial aid application must be turned in during the enrollment period. Forms can be submitted via mail, fax (313) 831-5633, or email: info@dapcep.org. You will have two weeks from the date on your notification letter to pay your remaining balance. For online enrollment, you can pay online, mail to: DAPCEP, 2111 Woodward Ave., Ste. 506, Detroit, MI 48201, or pay in person at the DAPCEP Office. For all other enrollments, follow the instructions of the school selected. If payment is mailed or made in person, we ONLY accept money orders and cashier checks.

**SUMMER 2017 ENROLLMENT DATES**

**APRIL 17 - MAY 22, 2017**

To be eligible for financial assistance, your family size and household income must fall within the limits of the chart below:

<table>
<thead>
<tr>
<th>TOTAL FAMILY SIZE</th>
<th>ANNUAL INCOME</th>
<th>MONTHLY INCOME</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>$21,775</td>
<td>$1,815</td>
</tr>
<tr>
<td>2</td>
<td>$29,471</td>
<td>$2,456</td>
</tr>
<tr>
<td>3</td>
<td>$37,167</td>
<td>$3,098</td>
</tr>
<tr>
<td>4</td>
<td>$44,863</td>
<td>$3,739</td>
</tr>
<tr>
<td>5</td>
<td>$52,559</td>
<td>$4,380</td>
</tr>
<tr>
<td>6</td>
<td>$60,255</td>
<td>$5,022</td>
</tr>
<tr>
<td>7</td>
<td>$67,951</td>
<td>$5,663</td>
</tr>
<tr>
<td>8</td>
<td>$75,647</td>
<td>$6,304</td>
</tr>
</tbody>
</table>

You will need the following information to complete your financial aid application:

  *** Or ***
- Copies of all supporting documentation for household Non-Taxable Income such as: Social Security Income, Welfare, Child Support, Food Stamps, Workers’ Compensation and Temporary Assistance for Needy Families (TANF).
<table>
<thead>
<tr>
<th>GRADE</th>
<th>PROGRAM PROVIDER</th>
<th>COURSE</th>
<th>CODE</th>
<th>DATES</th>
<th>COST</th>
</tr>
</thead>
<tbody>
<tr>
<td>4-5</td>
<td>GM Tech Center</td>
<td>Wired! Electrical Connections</td>
<td>19123</td>
<td>June 17 - June 24</td>
<td>FREE</td>
</tr>
<tr>
<td>4-5</td>
<td>GM Tech Center</td>
<td>Wired! Electrical Connections</td>
<td>19124</td>
<td>July 22 - July 29</td>
<td>FREE</td>
</tr>
<tr>
<td>6-8</td>
<td>Oakland University</td>
<td>Energy &amp; Structures - Middle School</td>
<td>19120</td>
<td>July 31 - Aug 4</td>
<td>$25</td>
</tr>
<tr>
<td>6-8</td>
<td>Oakland University</td>
<td>Engineering Exploration - Middle School</td>
<td>12054</td>
<td>June 19 - June 23</td>
<td>$25</td>
</tr>
<tr>
<td>6-8</td>
<td>Oakland University</td>
<td>Medical Explorers Camp - Beaumont Troy Hospital</td>
<td>19127</td>
<td>July 10 - July 13</td>
<td>$25</td>
</tr>
<tr>
<td>6-8</td>
<td>Oakland University</td>
<td>Medical Explorers Camp - Beaumont Troy Hospital</td>
<td>19128</td>
<td>July 17 - July 20</td>
<td>$25</td>
</tr>
<tr>
<td>6-8</td>
<td>Oakland University</td>
<td>The ABC's of Speaking and Broadcasting</td>
<td>32525</td>
<td>July 10 - July 18</td>
<td>$236</td>
</tr>
<tr>
<td>7-8</td>
<td>Fresh Nation</td>
<td>Galaxy Girls (Residential)</td>
<td>12063</td>
<td>July 30 - Aug 4</td>
<td>$25</td>
</tr>
<tr>
<td>9-10</td>
<td>University of Michigan Ann Arbor</td>
<td>Speaking Excellence, Sports &amp; Entertainment - IT</td>
<td>32526</td>
<td>July 10 - July 18</td>
<td>$236</td>
</tr>
<tr>
<td>9-11</td>
<td>Fresh Nation</td>
<td>Energy &amp; Structures - High School</td>
<td>19122</td>
<td>July 31 - Aug 4</td>
<td>$25</td>
</tr>
<tr>
<td>9-12</td>
<td>Oakland University</td>
<td>Engineering Exploration - High School</td>
<td>12053</td>
<td>June 19 - June 23</td>
<td>$25</td>
</tr>
<tr>
<td>9-12</td>
<td>Oakland University</td>
<td>Bio-Engineering - High School</td>
<td>12056</td>
<td>June 26 - June 30</td>
<td>$25</td>
</tr>
<tr>
<td>9-12</td>
<td>Lawrence Technological University</td>
<td>Lawrence Technological University Summer Camps</td>
<td>19158</td>
<td>VARIOUS</td>
<td>FREE</td>
</tr>
<tr>
<td>GRADE</td>
<td>PROGRAM PROVIDER</td>
<td>COURSE</td>
<td>DATES</td>
<td>COST</td>
<td></td>
</tr>
<tr>
<td>-------</td>
<td>------------------</td>
<td>--------</td>
<td>-------</td>
<td>------</td>
<td></td>
</tr>
<tr>
<td>2-3</td>
<td>Wayne State University</td>
<td>Creating Technology Toys</td>
<td>June 19 - June 23</td>
<td>$300</td>
<td></td>
</tr>
<tr>
<td>2-3</td>
<td>Wayne State University</td>
<td>Adventures in Minecraft</td>
<td>June 26 - June 30</td>
<td>$300</td>
<td></td>
</tr>
<tr>
<td>2-3</td>
<td>Wayne State University</td>
<td>Exploration in Coding &amp; Game Design</td>
<td>July 3 - July 7</td>
<td>$300</td>
<td></td>
</tr>
<tr>
<td>2-3</td>
<td>Wayne State University</td>
<td>Future Engineer</td>
<td>July 10 - July 14</td>
<td>$300</td>
<td></td>
</tr>
<tr>
<td>3-6</td>
<td>Detroit Zoological Society</td>
<td>Belle Isle Nature Camp</td>
<td>July 3 - Aug 25</td>
<td>Scholarship</td>
<td></td>
</tr>
<tr>
<td>4-9</td>
<td>Wayne State University</td>
<td>Exploration in Robotics</td>
<td>July 17 - July 21</td>
<td>$500</td>
<td></td>
</tr>
<tr>
<td>4-9</td>
<td>Wayne State University</td>
<td>Future Engineer</td>
<td>July 24 - July 28</td>
<td>$500</td>
<td></td>
</tr>
<tr>
<td>4-9</td>
<td>Wayne State University</td>
<td>Web Design &amp; Programming</td>
<td>June 26 - June 30</td>
<td>$300</td>
<td></td>
</tr>
<tr>
<td>4-9</td>
<td>Wayne State University</td>
<td>Creating Animation &amp; Movies</td>
<td>June 19 - June 23</td>
<td>$300</td>
<td></td>
</tr>
<tr>
<td>4-9</td>
<td>Wayne State University</td>
<td>Adventures in Minecraft</td>
<td>July 3 - July 7</td>
<td>$300</td>
<td></td>
</tr>
<tr>
<td>4-9</td>
<td>Wayne State University</td>
<td>Exploration in Robotics</td>
<td>June 19 - June 30</td>
<td>$600</td>
<td></td>
</tr>
<tr>
<td>4-9</td>
<td>Wayne State University</td>
<td>Hack Camp</td>
<td>July 10 - July 14</td>
<td>$300</td>
<td></td>
</tr>
<tr>
<td>5-8</td>
<td>Acceler8Kid</td>
<td>Coding (Code Warriors)</td>
<td>June 19 - June 23</td>
<td>$299</td>
<td></td>
</tr>
<tr>
<td>5-8</td>
<td>Acceler8Kid</td>
<td>Game Design (Minecraft Mechanics)</td>
<td>July 17 - Aug 1</td>
<td>$299</td>
<td></td>
</tr>
<tr>
<td>6-8</td>
<td>FocusHope</td>
<td>Mobile App Design</td>
<td>July 17 - Aug 10</td>
<td>$85</td>
<td></td>
</tr>
<tr>
<td>6-8</td>
<td>FocusHope</td>
<td>Graphic Design &amp; Publications</td>
<td>July 17 - Aug 10</td>
<td>$85</td>
<td></td>
</tr>
<tr>
<td>6-8</td>
<td>FocusHope</td>
<td>Explorations in STEM</td>
<td>July 17 - Aug 10</td>
<td>$85</td>
<td></td>
</tr>
<tr>
<td>6-12</td>
<td>Michigan State University</td>
<td>4H Renewable Energy Camp</td>
<td>July 24 - July 28</td>
<td>$200</td>
<td></td>
</tr>
<tr>
<td>6-12</td>
<td>Michigan State University</td>
<td>Summer Camps - <em>See description for course info</em></td>
<td>June 19 - June 23</td>
<td>$165 - $1500</td>
<td></td>
</tr>
<tr>
<td>7-12</td>
<td>Wayne State University</td>
<td>Coding Bootcamp</td>
<td>July 3 - July 14</td>
<td>$600</td>
<td></td>
</tr>
<tr>
<td>7-12</td>
<td>Wayne State University</td>
<td>Exploration in Game Design</td>
<td>June 19 - June 23</td>
<td>$600</td>
<td></td>
</tr>
<tr>
<td>9-11</td>
<td>University of Detroit Mercy</td>
<td>Design Thinking</td>
<td>July 12 - July 21</td>
<td>$450</td>
<td></td>
</tr>
<tr>
<td>9-11</td>
<td>University of Detroit Mercy</td>
<td>STEPS (Program for girls ONLY)</td>
<td>July 10 - July 21</td>
<td>$375</td>
<td></td>
</tr>
<tr>
<td>9-12</td>
<td>Michigan Technological University</td>
<td>Rail and Intermodal Transportation (RAIL)</td>
<td>July 9 - July 15</td>
<td>$450</td>
<td></td>
</tr>
<tr>
<td>9-12</td>
<td>NOMA [National Organization of Minority Architects]</td>
<td>Detroit - Project Pipeline Architecture Camp</td>
<td>TBD</td>
<td>FREE</td>
<td></td>
</tr>
<tr>
<td>9-12</td>
<td>University of Michigan Downtown Detroit</td>
<td>Tinkering with Mobile Apps I</td>
<td>July 24 - July 28</td>
<td>$25</td>
<td></td>
</tr>
<tr>
<td>9-12</td>
<td>University of Michigan Downtown Detroit</td>
<td>Tinkering with Mobile Apps II</td>
<td>July 31 - Aug 4</td>
<td>$25</td>
<td></td>
</tr>
<tr>
<td>9-12</td>
<td>Wayne State University</td>
<td>Exploration in Robotics</td>
<td>June 19 - June 30</td>
<td>$600</td>
<td></td>
</tr>
<tr>
<td>11-12</td>
<td>Detroit Zoological Society</td>
<td>Nature Center Counselor in Training</td>
<td>July 17 - Aug 25</td>
<td>FREE</td>
<td></td>
</tr>
</tbody>
</table>
CREATING TECHNOLOGY TOYS
Wayne State University
Enhance curiosity in computer science and engineering. Build LEGO models featuring working motors and sensors; program their models; and explore series of cross curricular, them-based activities while developing their skills in STEM. Students will use Scratch, a program, that allows you to program your own interactive stories, games, and animations. Scratch helps young people learn to think creatively, reason systematically, and work collaboratively.

APPLY: via WSU only: [https://commerce.wayne.edu/events/engineering-events/summercamp2017.html](https://commerce.wayne.edu/events/engineering-events/summercamp2017.html)
TYPE: Commuter  COST: $300  APPLICATION DEADLINE: Until Full
DATES: June 19 - June 23  TIMES: 8:30am - 4:30pm

ADVENTURES IN MINECRAFT
Wayne State University
Minecraft is one of the most popular video games. Minecraft enable players to build constructions out of textured cubes in a 3D procedurally generated world. MinecraftEDU allows students to not only play but build levels, design and use problem solving skills. Many schools are using MinecraftEDU for science, technology, engineering, arts, and mathematics (STEAM) learning. Students will be taught building basics through gameplay, building adventure maps, and resource packs. Advance minecrafers will learn Java programming language to create and participate in 3D design challenges.

APPLY: via WSU only: [https://commerce.wayne.edu/events/engineering-events/summercamp2017.html](https://commerce.wayne.edu/events/engineering-events/summercamp2017.html)
TYPE: Commuter  COST: $300  APPLICATION DEADLINE: Until Full
DATES: June 26 - June 30  TIMES: 8:30am - 4:30pm

EXPLORATION IN CODING & GAME DESIGN
Wayne State University
Learn how to create characters with special effects and coding fundamentals. Create unique stories and create your very own video game. Using a drag-and-drop code blocks using a visual programming platform. Stories and games will come to life in a cool and creative ways.

APPLY: via WSU only: [https://commerce.wayne.edu/events/engineering-events/summercamp2017.html](https://commerce.wayne.edu/events/engineering-events/summercamp2017.html)
TYPE: Commuter  COST: $300  APPLICATION DEADLINE: Until Full
DATES: July 3 - July 7  TIMES: 8:30am - 4:30pm

FUTURE ENGINEER
Wayne State University
STEAM based hands on projects learning disciplines of engineering: biomedical, chemical, civil, electrical, mechanical and more.

APPLY: via WSU only: [https://commerce.wayne.edu/events/engineering-events/summercamp2017.html](https://commerce.wayne.edu/events/engineering-events/summercamp2017.html)
TYPE: Commuter  COST: $300  APPLICATION DEADLINE: Until Full
DATES: July 10 - July 14  TIMES: 8:30am - 4:30pm
BELLE ISLE NATURE CAMP CAMP

**Detroit Zoological Society**

This week-long summer day camp curriculum meets the social and developmental needs of campers while giving them enriching experiences in nature, art, literacy, and math. This day camp is divided into two groups for students 5 to 7 years old and 8 to 12 years old. As the Belle Isle Nature Center Summer Nature Camp is a free camp. Campers are eligible for one week of camp. Free breakfast and lunch are provided courtesy of Gleaners Community Food Bank.

**APPLY:** via [http://belleislenaturecenter.org/education/summer-nature-camp/](http://belleislenaturecenter.org/education/summer-nature-camp/)

- **TYPE:** Commuter
- **COST:** SCHOLARSHIP
- **APPLICATION DEADLINE:** Until Full
- **DATES:** July 3 - Aug 25
- **TIMES:** 8:30am - 4pm

4th - 5th GRADE

**WIRED! ELECTRICAL CONNECTIONS:**

*GM Tech Center (Note: Multiple sessions available. See below for more information.)*

Students will receive introductory instruction from GM employees in electrical concepts. They will learn about electrical currents, circuits, and use materials to create series and parallel circuit paths. Building on this knowledge, they will also create an electric quiz board. At course end, students will be able to demonstrate an understanding of how electric energy is transferred and changed through the use of circuits. Students must be: (1) 4th graders going to 5th grade or (2) 5th graders going to 6th grade. Lunch is provided. **This course takes place on two Saturdays only.**

**APPLY:** via dapcep.org

- **TYPE:** Commuter
- **COST:** FREE
- **APPLICATION DEADLINE:** Until Full
- **DATES:** June 17 & June 24
- **TIMES:** 8:30am - 12:45pm
- **CODE:** 19123

- **DATES:** July 22 & July 29
- **TIMES:** 8:30am - 12:45pm
- **CODE:** 19124
SUMMER COURSES

4th - 9th GRADE

EXPLORATION IN ROBOTICS
Wayne State University
Building and programming new exciting robots using the LEGO Mindstorms Robotics Invention System, NXT & EV-3.

APPLY: via WSU only:  https://commerce.wayne.edu/events/engineering-events/summercamp2017.html
TYPE: Commuter  COST: $300  APPLICATION DEADLINE: Until Full
DATES: July 17 - July 21  TIMES: 8:30am - 4:30pm

FUTURE ENGINEER
Wayne State University
STEAM based hands on projects learning disciplines of engineering: biomedical, chemical, civil, electrical, mechanical and more.

APPLY: via WSU only:  https://commerce.wayne.edu/events/engineering-events/summercamp2017.html
TYPE: Commuter  COST: $300  APPLICATION DEADLINE: Until Full
DATES: July 24 - July 28  TIMES: 8:30am - 4:30pm

WEB DESIGN & PROGRAMMING
Wayne State University
Make webpages with HTML5, CSS3, and JavaScript using headers and footers, dynamic navigation menus, embedded audio and video, CSS3 styles, JavaScript, and JQuery animations.

APPLY: via WSU only:  https://commerce.wayne.edu/events/engineering-events/summercamp2017.html
TYPE: Commuter  COST: $300  APPLICATION DEADLINE: Until Full
DATES: June 26 - June 30  TIMES: 8:30am - 4:30pm

CREATING ANIMATION & MOVIES
Wayne State University
Explore computer animation to create an original computer-generated movie. Learn how to use animation software, a 3-D virtual reality software program. Learn about mechanical and software design.

APPLY: via WSU only:  https://commerce.wayne.edu/events/engineering-events/summercamp2017.html
TYPE: Commuter  COST: $300  APPLICATION DEADLINE: Until Full
DATES: June 19 - June 23  TIMES: 8:30am - 4:30pm
ADVENTURES IN MINECRAFT
Wayne State University
Minecraft is one of the most popular video games. Minecraft enable players to build constructions out of textured cubes in a 3D procedurally generated world. MinecraftEDU allows students to not only play but build levels, design and use problem solving skills. Many schools are using MinecraftEDU for science, technology, engineering, arts, and mathematics (STEAM) learning. Students will be taught building basics through gameplay, building adventure maps, and resource packs. Advance minecrafers will learn Java programming language to create and participate in 3D design challenges.

APPLY: via WSU only: https://commerce.wayne.edu/events/engineering-events/summercamp2017.html
TYPE: Commuter
COST: $300
APPLICATION DEADLINE: Until Full
DATES: July 17 - July 28
TIMES: 8:30am - 4:30pm

EXPLORATION IN ROBOTICS
Wayne State University
Work in pairs to solve challenges by building and programming new exciting robots using the LEGO Mindstorms Robotics Invention System. Learn NXT & EV-3 programming and can learn RobotC programming. Build and program several new and exciting robots. Compete robot in friendly challenges and games with fellow campers.

APPLY: via WSU only: https://engineering.wayne.edu/cs/about/summer-camps.php
TYPE: Commuter
COST: $600
APPLICATION DEADLINE: Until Full
DATES: July 17 - July 28
TIMES: 8:30am - 4:30pm

HACK CAMP
Wayne State University
Create apps, build websites, and make games. Learn the fundaments of web development skills transferable to game and app development. Form teams to collaboratively solve problems using technology. Showcase your coding and computational thinking skills at the end of the program.

APPLY: via WSU only: https://engineering.wayne.edu/cs/about/summer-camps.php
TYPE: Commuter
COST: $300
APPLICATION DEADLINE: Until Full
DATES: July 17 - July 28
TIMES: 8:30am - 4:30pm
SUMMER COURSES

5th - 8th GRADE

CODING (CODE WARRIORS)
Acceler8Kid
Coding is teaching kids about computer science and programming technology. It’s becoming essential for kids to learn coding like math and reading. We have programming camps for all ages including Scratch Visual Programming, JavaScript, Python and Java app development. DAPCEP students will receive a 20% discount by using code: DAPCEP17SU.

APPLY: via:  www.accelerateKID.com/camps
TYPE: Commuter  COST: $299  APPLICATION DEADLINE: Until Full
DATES: June 19 - June 23  TIMES: 1:30pm - 4:30pm

GAME DESIGN (MINECRAFT MANIACS)
Acceler8Kid
Game design is teaching kids about game design and technology using fun Minecraft and Roblox. It doesn’t matter if your child is a novice or expert at gaming, we have game tech camps for all ages. DAPCEP students will receive a 20% discount by using code: DAPCEP17SU.

APPLY: via:  www.accelerateKID.com/camps
TYPE: Commuter  COST: $299  APPLICATION DEADLINE: Until Full
DATES: July 17 - Aug 1  TIMES: 1:30pm - 4:30pm

6th - 8th GRADE

MOBILE APP DESIGN
Focus Hope
Students learn the basics of programming by creating their first app. Students use software to program and design their apps and learn both concrete development skills and principles of design.

APPLY: via:  http://www.focushope.edu/page.aspx?content_id=500&content_type=level2
TYPE: Commuter  COST: $85  APPLICATION DEADLINE: Until Full
DATES: July 17 - Aug 10  TIMES: 9am - 12pm

GRAPHIC DESIGN & PUBLICATIONS
Focus Hope
Students will create fun and creative projects such as flyers, greeting cards, t-shirts and more. Desktop Publication Software is used to fill mock orders and design products for their customers.

APPLY: via:  http://www.focushope.edu/page.aspx?content_id=500&content_type=level2
TYPE: Commuter  COST: $85  APPLICATION DEADLINE: Until Full
DATES: July 17 - Aug 10  TIMES: 9am - 12pm
EXPLORATIONS IN STEM
Focus Hope
Students learn about engineering and structural design through hands-on experiments and computer programs. The program highlights the diverse nature of the engineering field and allows students to discover a variety of possible future careers.

APPLY: via: http://www.focushope.edu/page.aspx?content_id=500&content_type=level2
TYPE: Commuter  COST: $85  APPLICATION DEADLINE: Until Full
DATES: July 17 - Aug 10  TIMES: 9am - 12pm

ENERGY & STRUCTURES - MIDDLE SCHOOL
Oakland University
This camp is designed for students who have an interest in mechanical engineering. Students will be introduced to a variety of disciplinary topics including building roller coasters to study energy conversion, velocity and acceleration, building and testing wind anemometers and turbine blades, energy management topics in homes, energy conservation, making and testing battery cells, and other relevant project-based topics.

APPLY: via dapcep.org
TYPE: Commuter  COST: $25  APPLICATION DEADLINE: Until Full
DATES: July 31 - Aug 4  TIMES: 8am - 3pm  CODE: 19120

ENGINEERING EXPLORATION - MIDDLE SCHOOL
Oakland University
This camp is designed for students who want to learn about the full variety of core STEM concepts. Different types of engineering are introduced each day in a hands-on, student-centered manner.

APPLY: via dapcep.org
TYPE: Commuter  COST: $25  APPLICATION DEADLINE: Until Full
DATES: June 19 - June 23  TIMES: 8am - 3pm  CODE: 12054

MEDICAL EXPLORERS CAMP - BEAUMONT TROY HOSPITAL
Oakland University
This camp is designed to introduce middle school students to the anatomy and physiology of the human body through online and face-to-face interaction. Students will work with Oakland University William Beaumont Medical School faculty and medical students and Beaumont Hospital in Troy. Students will conduct science investigations to discover how organisms in the environment affect human health and the human genetic makeup. This program will foster student awareness about the multiple pathways to a career in medicine and healthcare. DAPCEP Bus Transportation is provided and mandatory. Students must ride the bus from the Lawrence Technological University, located at 21000 West 10 Mile Rd, Southfield, MI (Science Building parking lot) to Beaumont Hospital. Due to the high volume of traffic at the hospital, parents WILL NOT be allowed to drop students off at the hospital for this camp.

APPLY: via dapcep.org
TYPE: Commuter  COST: $25  APPLICATION DEADLINE: Until Full
DATES: July 10 - July 13  TIMES: 9am - 4pm  CODE: 19127
DATES: July 17 - July 20  TIMES: 9am - 4pm  CODE: 19128
**SUMMER COURSES**

### 6th - 12th GRADE

**4H RENEWABLE ENERGY CAMP**

*Michigan State University*

Michigan 4-H Renewable Energy Camp is a five-day exploration camp held at Michigan State University for youth ages 13-19. Campers will explore ideas, research and opportunities in the field of energy as it relates to natural resources and agriculture.

**APPLY:** via MSU: [http://msue.anr.msu.edu/program/info/4_h_renewable_energy_camp](http://msue.anr.msu.edu/program/info/4_h_renewable_energy_camp)

**TYPE:** Residential  
**COST:** $200  
**APPLICATION DEADLINE:** May 18

**DATES:** July 24 - July 28

### SUMMER CAMPS

*Michigan State University*

Michigan State University’s Spartan Youth Programs provides a wide range of exciting opportunities for youth to improve their knowledge and skills in specific subject areas.

**FOR COURSE INFO & APPLICATIONS:** via MSU: [http://spartanyouth.msu.edu](http://spartanyouth.msu.edu)

**TYPE:** Residential  
**COST:** $165 - $1500

### 7th - 8th GRADE

**THE ABC’s OF SPEAKING & BROADCASTING**

*Fresh Nation*

Students will establish learning in the areas of public speaking, English language arts, math, and a broadcast technology with an engineering overview. Students in the 6th through 8th grades will participate in public speaking, radio talk show, spoken word, broadcast writing content, individual and team voice acting, broadcast engineering, editing, and technology exercise sessions. Students will be placed into broadcast teams in the respective roles and compete for Fresh Nation prizes during the last days of this camp. The competition subjects will cover news, social media, entertainment and community topics.

**THE CLASS LOCATION WILL BE PROVIDED AT A LATER DATE.**

**APPLY:** via [dapcep.org](http://dapcep.org)

**TYPE:** Commuter  
**COST:** $236  
**APPLICATION DEADLINE:** Until Full

**DATES:** July 10 - July 18  
**TIMES:** 9am - 3pm  
**CODE:** 32525
# SUMMER COURSES

## 7th - 12th GRADE

### CODING BOOTCAMP

**Wayne State University**

- Learning to code. Strengthen computer science skills through mini applications and hands-on exercises. Learn computer hardware and machine language and object-oriented programming concepts in programming. Provides a base of conceptual understanding and language-specific syntax and data handling.

**APPLY:** via WSU: [http://engineering.wayne.edu/cs/about/summer-camps.php](http://engineering.wayne.edu/cs/about/summer-camps.php)

- **TYPE:** Commuter
- **COST:** $600
- **APPLICATION DEADLINE:** Until Full
- **DATES:** June 19 - June 30
- **TIMES:** 8:30am - 4:30pm

### EXPLORATION IN GAME DESIGN

**Wayne State University**

- Introduction to fundamental game design principles with universal applications. Write video games for game controllers such as the Xbox 360 controllers. Explore the program techniques behind games. Develop simple 2D and 3D graphics and sound. Build your own amazing games.

**APPLY:** via WSU: [http://engineering.wayne.edu/cs/about/summer-camps.php](http://engineering.wayne.edu/cs/about/summer-camps.php)

- **TYPE:** Commuter
- **COST:** $600
- **APPLICATION DEADLINE:** Until Full
- **DATES:** June 19 - June 30
- **TIMES:** 8:30am - 4:30pm

## 9th - 10th GRADE

### GALAXY GIRLS - FEMALE STUDENTS ONLY

**University of Michigan Ann Arbor**

- The University of Michigan - Ann Arbor Summer Galaxy Academy will facilitate a week-long residential program for current 9th and 10th grade female students. Students will explore exciting STEM coursework, with particular focus on aerospace science and space-related fields, all while residing in dorms on campus! Participants are required to secure their own transportation to and from the program.

**APPLY:** via dapcep.org

- **TYPE:** Residential
- **COST:** $25
- **APPLICATION DEADLINE:** Until Full
- **CODE:** 12063
- **DATES:** July 30 - Aug 4
- **TIMES:** NA
SUMMER COURSES

9th - 11th GRADE

SPEAKING EXCELLENCE, SPORTS & ENTERTAINMENT - IT

*Fresh Nation*

High School students will develop their individual power speaking voices by participating in the following: news writing, commentary sports, entertainment, debating techniques, and broadcast technology. Students will develop voice portfolios and participate in live newscast competitions. There will be a field trip to a broadcast outlet. **THE CLASS LOCATION WILL BE PROVIDED AT A LATER DATE.**

**APPLY:** via dapcep.org

**TYPE:** Commuter  
**COST:** $236  
**APPLICATION DEADLINE:** Until Full

**DATES:** July 10 - July 18  
**TIMES:** 9am - 3pm  
**CODE:** 32526

DESIGN THINKING

*University of Detroit Mercy*

Students will learn to innovate everyday products and processes in an immersive, engaging and fun hands-on experience. Under the guidance of world-class engineering faculty, students will work in teams on a daily creative exercise as well as learn and apply the principles of Design Thinking. Through field trip experiences, students will see how innovation and creative principles improve past, present and future human life.

**APPLY:** via UofD: [http://eng-sci.udmercy.edu/pre-college/design-thinking.php](http://eng-sci.udmercy.edu/pre-college/design-thinking.php)

**TYPE:** Commuter  
**COST:** $450  
**APPLICATION DEADLINE:** Until Full

**DATES:** July 12 - July 21  
**TIMES:** 9am - 4:30pm

STEPS - FEMALE STUDENTS ONLY

*University of Detroit Mercy*

Students will be immersed in EV3 robotics, solidworks software, chemistry, physics, 3-D design & printing, environmental engineering, & civil engineering, while gaining an understanding of manufacturing techniques, robotic control systems, circuits, and sensors. This camp is for **GIRLS ONLY.**

**APPLY:** via UofD: [http://eng-sci.udmercy.edu/pre-college/steps.php](http://eng-sci.udmercy.edu/pre-college/steps.php)

**TYPE:** Residential  
**COST:** $375  
**APPLICATION DEADLINE:** Until Full

**DATES:** July 10 - July 21  
**TIMES:** NA
ENERGY & STRUCTURES - HIGH SCHOOL
Oakland University
This camp is designed for students who have an interest in mechanical engineering. Students will be introduced to a variety of disciplinary topics including building roller coasters to study energy conversion, velocity and acceleration, building and testing wind anemometers and turbine blades, energy management topics in homes, energy conservation, making and testing battery cells, and other relevant project-based topics.

APPLY: via dapcep.org
TYPE: Commuter  COST: $25  APPLICATION DEADLINE: Until Full
DATES: July 31 - Aug 4  TIMES: 8am - 3pm  CODE: 19122

ENGINEERING EXPLORATION - HIGH SCHOOL
Oakland University
This camp is designed for students who want to learn about the full variety of core STEM concepts. Different types of engineering are introduced each day in a hands-on, student-centered manner.

APPLY: via dapcep.org
TYPE: Commuter  Cost: $25  APPLICATION DEADLINE: Until Full
DATES: June 19 - June 23  TIMES: 8am - 3pm  CODE: 12053

BIO-ENGINEERING - HIGH SCHOOL
Oakland University
This camp is designed for students who have an interest in Bioengineering. Students will get an overview of what Bioengineering is and how it is used in the real world. Modules will include making a model hand and a virus simulation activity. Students will be able to unleash their creativity in open-ended exercises throughout the week and be able to take many of their creations home with them.

APPLY: via dapcep.org
TYPE: Commuter  COST: $25  APPLICATION DEADLINE: Until Full
DATES: June 26 - June 30  TIMES: 8am - 3pm  CODE: 12056

RAIL & INTERMODAL TRANSPORTATION (RAIL)
Michigan Technological University
Explore the exciting world of rail and intermodal transportation. Why are trains called the “green transportation alternative”? How fast can high-speed passenger trains travel? How do containers find their way from China to the US? Find out the answers to these questions and more! Enjoy technical and hands-on tours of rail and intermodal facilities in Ishpeming/Marquette and Duluth/Superior where you can pose your questions directly to the experts! Prerequisites: Must provide a teacher recommendation and transcript (minimum 3.0 GPA) as part of your application.

APPLY: via MTU:  http://www.syp.mtu.edu/apply-forms.php
TYPE: Residential  COST: $450  APPLICATION DEADLINE: May 1, or Until Full
DATES: July 9 - July 15  TIMES: NA
DETROIT - PROJECT PIPELINE ARCHITECTURE CAMP
NOMA - National Organization of Minority Architects
Project Pipeline Architecture Camp is a national initiative established in 2006 by the National Organization of Minority Architects. The Project Pipeline Workshops are focused on local community issues and opportunities. The program is built to provide students with a platform to discuss, analyze, and interpret the impact of design, art, and architecture in the built environment through focused curriculum and creative outcomes. This is a free two-day intensive design program to learn more about architectural design and the profession.

APPLY: via NOMA: [http://nomadetroit.org/detppapp](http://nomadetroit.org/detppapp)
TYPE: Commuter          COST: FREE          APPLICATION DEADLINE: June 16
DATES: TBD             TIMES: TBD

TINKERING WITH MOBILE APPS I
University of Michigan Downtown Detroit
A 5-day commuter program for students who are curious about exploring the basics of computer science and want to build their own mobile apps.

APPLY: via [https://mibytes-mez.eecs.umich.edu/index.html](https://mibytes-mez.eecs.umich.edu/index.html)
TYPE: Commuter           COST: $25          APPLICATION DEADLINE: Until Full
DATES: July 24 - July 28    TIMES: TBD

TINKERING WITH MOBILE APPS II
University of Michigan Downtown Detroit
Over 5 days, this commuter program will extend the skills and knowledge gained from Tinkering with Mobile Apps I and show students the basics of building connected apps.

APPLY: via [https://mibytes-mez.eecs.umich.edu/index.html](https://mibytes-mez.eecs.umich.edu/index.html)
TYPE: Commuter           COST: $25          APPLICATION DEADLINE: Until Full
DATES: July 31 - Aug 4    TIMES: TBD

EXPLORATION IN ROBOTICS
Wayne State University
Work in pairs to solve challenges by building and programming new exciting robots using the LEGO Mindstorms Robotics Invention System. Learn NXT & EV-3 programming and can learn RobotC programming. Build and program several new and exciting robots. Compete robot in friendly challenges and games with fellow campers.

APPLY: via WSU: [http://engineering.wayne.edu/cs/about/summer-camps.php](http://engineering.wayne.edu/cs/about/summer-camps.php)
TYPE: Commuter           COST: $600          APPLICATION DEADLINE: Until Full
DATES: June 19 - June 30    TIMES: 8:30am - 4pm
**SUMMER COURSES**

### LAWRENCE TECHNOLOGICAL UNIVERSITY SUMMER CAMPS

**Lawrence Technological University**

Lawrence Technological University provides a wide range of exciting opportunities for youth to improve their knowledge and skills in specific subject areas. The dates for this one week camp opportunity will range from July 17, 2017 to July 28, 2017. Ten FULL scholarships will be awarded DAPCEP students based on a first come first served basis. There will be no out of pocket cost for parents. Students have the choice of a commuter or residential camp.

**APPLY:** via LTU: [https://www.ltu.edu/community_k12/summer-camps.asp](https://www.ltu.edu/community_k12/summer-camps.asp)  **CODE:** 19158

Parents must call the DAPCEP office and indicate the camp of their choice by selecting one of these options:

<table>
<thead>
<tr>
<th></th>
<th>Camp Type</th>
<th>Dates</th>
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<tbody>
<tr>
<td>1</td>
<td>Architectural Engineering</td>
<td>July 17 - July 21</td>
</tr>
<tr>
<td>2</td>
<td>Architecture &amp; Interior Design - Week 1</td>
<td>July 17 - July 21</td>
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<tr>
<td>3</td>
<td>Architecture &amp; Interior Design - Week 2</td>
<td>July 24 - July 28</td>
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<tr>
<td>4</td>
<td>Automotive Engineering</td>
<td>July 17 - July 21</td>
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<td>5</td>
<td>Basic Design</td>
<td>July 10 - July 14</td>
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<td>6</td>
<td>Biomedical Engineering</td>
<td>July 10 - July 14</td>
</tr>
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<td>7</td>
<td>Biotechnology</td>
<td>June 26 - June 30</td>
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<td>8</td>
<td>Build an Android App</td>
<td>July 17 - July 21</td>
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<td>9</td>
<td>Business &amp; Entrepreneurship</td>
<td>July 24 - July 28</td>
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<tr>
<td>10</td>
<td>Civil Engineering - Building Big!</td>
<td>July 10 - July 14</td>
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<td>11</td>
<td>Electrical &amp; Computer Engineering</td>
<td>July 17 - July 21</td>
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<tr>
<td>12</td>
<td>Game Art - Week 1</td>
<td>July 17 - July 21</td>
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<tr>
<td>13</td>
<td>Game Art - Week 2</td>
<td>July 24 - July 28</td>
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<td>14</td>
<td>Imaging &amp; Graphic Design</td>
<td>July 24 - July 28</td>
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<td>15</td>
<td>Industrial Design - Week 1</td>
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<td>16</td>
<td>Industrial Design - Week 2</td>
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<td>17</td>
<td>Machining &amp; Fabricating - Week 1</td>
<td>June 26 - June 30</td>
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<td>18</td>
<td>Machining &amp; Fabricating - Week 2</td>
<td>July 24 - July 28</td>
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<td>19</td>
<td>Molecules in Medicine</td>
<td>July 17 - July 21</td>
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<td>20</td>
<td>Nanotechnology</td>
<td>July 17 - July 21</td>
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<td>21</td>
<td>Psychology</td>
<td>June 26 - June 30</td>
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<td>22</td>
<td>Sketching for Architecture &amp; Design</td>
<td>June 26 - June 30</td>
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<tr>
<td>23</td>
<td>Transportation Design - Week 1</td>
<td>July 17 - July 21</td>
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<td>24</td>
<td>Transportation Design - Week 2</td>
<td>July 24 - July 28</td>
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<tr>
<td>25</td>
<td>Web Design</td>
<td>June 26 - June 30</td>
</tr>
</tbody>
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### NATURE CENTER COUNSELOR IN TRAINING

**Detroit Zoological Society**

Volunteer students support paid camp counselors and assist with activities throughout the camp at the Belle Isle Nature Center. Teen volunteers assist camp groups with outdoor play, nature immersion, games and crafts. Free breakfast and lunch provided. Volunteers pick two weeks from July 17, 2017 - August 25, 2017

**APPLY:** via Detroit Zoo: [www.detroitzoo.org/support/volunteer](http://www.detroitzoo.org/support/volunteer)  **APPLICATION DEADLINE:** April 28

**TYPE:** Commuter  **COST:** FREE  **DATES:** July 17 - Aug 25  **TIMES:** 8:30am - 4pm
The **PAC** (Parent Advisory Committee) of **DAPCEP** (Detroit Area Pre-College Engineering Program) was formed by parents of **DAPCEP** students in May, 1980 as the Parent Ad Hoc Committee. The purpose of this group has been and continues to be to support the programs and activities of **DAPCEP** and its students.

**PAC** has several subcommittees as well as an active teen component to their organization. The teens in grades 8th through 12th meet the same time as the parents. Their calendar of events is diverse and well received by the students and parents alike. The Teen Coordinators are working professionals from major industries throughout metropolitan Detroit. They are highly motivated and keep the teens enthusiastically involved in activities throughout the **PAC** year.

The current membership fee is $10 per year per member. Teen membership is included with the parent membership. The Parent Advisory Committee of **DAPCEP** is a registered 501c3 organization in the state of Michigan.

**PAC MEETINGS**

2nd Wednesday of each month at Hartford Memorial Baptist Church. 18700 James Couzens, Detroit, MI (John C. Lodge Freeway & 7 Mile Rd.)

6:00pm - 8:00pm

**PAC PRESIDENT:** Dennis Ross / 313-438-0975
Thank You to all of our Partners!