

HANDBOOK

Week 1: June 15-18, 2020

Week 2: June 22-25, 2020

Coordinated By:

Grand Valley State University

Seymour and Esther Padnos College of Engineering & Computing

Sponsors:



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Welcome to Grand Valley State University

A strong liberal education serves as the foundation for Grand Valley's wide array of undergraduate and graduate programs, fostering critical thinking, creative problem solving, and cultural understanding preparing students for responsibility as local, national, and global citizens. Through personalized learning enhanced by active scholarship, we accomplish our mission of educating students to shape their lives, their professions, and their societies.

Academic Excellence

The university's highest priority is to offer outstanding teaching grounded in the liberal tradition in all of its undergraduate and graduate programs and vigorous engagement of students in the classroom and other learning environments. Grand Valley is known for excellence in student-centered teaching and learning. Ninety-two percent of regular faculty members have earned doctoral degrees or other appropriate terminal degrees. They are supported by a high-quality nonteaching professional staff and Grand Valley's exceptionally fine teaching facilities. The quality of instruction is enhanced further by small class size, individual student advising, and career counseling.

Our instructional offerings encompass more than 200 areas of study, including 86 undergraduate and 36 graduate programs that include more than 70 areas of study.

Mission

Grand Valley State University educates students to shape their lives, their professions, and their societies. The university contributes to the enrichment of society through excellent teaching, active scholarship, and public service.

Vision

Grand Valley State University will become one of the nation's premiere Carnegie classification "Master's Large" institutions of higher education grounded in the tradition of liberal education. It will be recognized and acknowledged as a community of diverse, committed scholars engaged in collaborative, lifelong learning to achieve acknowledged academic excellence and positive community impacts. By focusing on the promotion of high quality undergraduate and graduate degree programs, the institution will be the university of choice for students and faculty members alike and it will enjoy broad support for its innovative partnerships and initiatives that promote the physical health and the intellectual, social, environmental, economic, and cultural advancement of West Michigan, and ultimately, the advancement of the state, nation, and world.

Values

At Grand Valley State University, we value:

Effective Teaching

Our highest priority is to offer outstanding teaching in all of our undergraduate and graduate programs. The teaching culture of Grand Valley State University is characterized by the continual development of excellence in the classroom, the recognition of multiple ways of learning, and the accessibility of faculty members to students. In order to nurture the habits of intellectual growth, we seek to instill in our students curiosity as well as the love of learning. Students acquire new knowledge and explore its application through research, artistic expression, engagement with the local

community, and scholarly activity. We value the vigorous engagement of students in the classroom and other learning environments.

Liberal Education

Grand Valley State University is committed to providing each student a broad educational experience that integrates liberal learning with preparation for a career or profession. Liberal education begins with encountering the great ideas of diverse traditions in the humanities, the visual and performing arts, the natural and social sciences, and mathematics, and is an essential part of all of our professional programs. We value the liberal ideals of critical thinking and preparing students for lifelong learning. The practice of liberal learning develops the skills of inquiry and reflection, which guide students to think for themselves, gain self-knowledge, and make ethical judgments. Such learning can inform individual and collective actions and prepare students for the responsibility of local, national, and global citizenship.

Scholarship

Scholarship is an essential component of the university's mission as an institution of higher learning. Excellence in teaching at the university level depends upon active scholarship by faculty members. Through basic and applied research, artistic expression and performance, and other forms of scholarship, faculty members contribute to the development and application of knowledge and create a dynamic environment for learning. Active scholarship may include collaboration of faculty and staff members with students, business and labor, government, and community organizations. In this way, the benefits of a liberal education and specific disciplines can extend beyond classroom walls to lifelong learning and partnerships between the university and its diverse communities and the greater community.

Service

Grand Valley State University values the collaboration of faculty members, staff members, and students with external partners in addressing mutual interests and regional needs. The university offers the communities it serves resources and inspiration in their own lifelong pursuit of knowledge. Faculty and staff members are encouraged to contribute their expertise and service to the university, their disciplines' professional organizations, and working in partnership with the community. Students are encouraged to be active citizens, to become active service providers, and to take part in various service-learning and volunteer opportunities in the community and abroad.

Inclusiveness

Possessing and mastering a range of thoughtful perspectives is necessary for open inquiry, a liberal education, and a healthy community. Recognizing this, Grand Valley seeks to include, engage, and support a diverse group of students and faculty and staff members. The institution values a multiplicity of opinions and backgrounds, and is dedicated to incorporating multiple voices and experiences into every aspect of its operations. We are committed to building institutional capacity and strengthening our liberal education through providing an inclusive environment for all of our Grand Valley constituents.

Community

Grand Valley State University values its connections to, participation with, and responsibility for local communities, the West Michigan region, the state, the nation, and the world. The university embraces the participation of diverse individuals, groups, and organizations from every corner of the globe and both encourages and supports the participation of its students and faculty and staff members in educational opportunities abroad. To foster and expand these community connections, the institution and its members promote, value, and honor diverse perspectives. We seek to act with integrity, communicate openly and honestly, and accept responsibility for our words and actions.

Sustainability

Grand Valley State University values the guiding principles of sustainability in helping to meet the current needs of our faculty and staff members and students without compromising the needs and resources of future generations. We are committed to working with our community partners to create a sustainable future for our university, our community, and our region. We will model applied sustainability best practices in our campus operations and administration, education for sustainable development, student involvement, and community engagement by promoting social responsibility, encouraging environmental stewardship, and creating efficiencies and value for the work we perform. We will provide our students with excellence in education for sustainable development by imbedding theory, systems-oriented thinking, and service-learning into our curricular and extracurricular programs.

Seymour and Esther Padnos College of Engineering and Computing

www.gvsu.edu/pcec

Mission Statement

The mission of the Seymour and Esther Padnos College of Engineering and Computing is to prepare undergraduate and graduate students in engineering and computing to become accomplished professionals; to contribute to our professions through active scholarship in all of its forms; and to support the university and society with expertise, leadership, and service.

To achieve our mission, we prepare students to compete in today's global economy by emphasizing experiential learning in a contemporary technical environment; prepare students for the future by emphasizing sound principles; emphasize a strong technical background enhanced by effective communication skills; provide working professionals with the opportunity for continuous professional development; imbue students with a strong sense of "the public good" and their own professional responsibility to the public good; and strive to be an example and an inspiration to develop competence, courage, and compassion with unquestioned integrity.

The Padnos Legacy

Grand Valley State University has named the Padnos College of Engineering and Computing in honor of Seymour and Esther Padnos to recognize their commitment to creating an environment where students and faculty can reach their full potential in the fields of engineering, computing, and occupational safety and health. It is the aim of the university to inspire these future professionals to live up to the personal and professional ideals of the Padnos family.

Program Information

The college offers undergraduate programs in computer information systems, engineering, and occupational safety and health management. Graduate programs are offered in computer information systems, engineering, and the professional sciences. The college also provides courses in support of non-engineering and computing students through a variety of minor programs.

Experiential Learning

The Padnos College is committed to the role of experiential learning in preparing professionals for careers in engineering, computing, and occupational safety and health management. All students completing undergraduate degrees in engineering complete the integrated cooperative education program. All students completing undergraduate degrees in computer science, information systems, and occupational safety and health management as well as students in of the professional science master's programs complete the integrated internship program. Internship opportunities are available, but not required, of students in the Master of Science in engineering program and the Master of Science in computer information systems program.



Dear Campers and Parents/Guardians,

Congratulations on being selected to attend the Science Technology & Engineering Preview Summer (STEPS) Camp at Grand Valley State University (GVSU). We are happy you are interested in attending STEPS Camp and we are looking forward to a fun-filled and educational week!

GVSU and the Seymour and Esther Padnos College of Engineering & Computing (PCEC) are very proud to host the STEPS Camp. We hope to make your experience at GVSU a positive one, from camp registration through the Graduation Fly activities. Therefore, this handbook was put together to orient you to the STEPS Camp and acquaint you with our procedures.

Between the hours of 7:30 AM – 8:30 AM on Monday morning, please report to the lobby of the Innovation Design Center (IDC) for check-in. You will find the IDC entrance starred on the campus map on page 11, and directional signs will be posted outside of the IDC. When you arrive, you will meet counselors, other campers, teachers, and staff working with the STEPS Camp.

Orientation for campers only will begin at 8:30 AM. We would like to encourage parents/guardians to attend the Graduation Fly Night, which will be held from 5:30 PM to 8:30 PM on Thursday at the Warped Wings Fly Field on Alger St., Allendale, MI. A map is included in this handbook for your convenience (page 15).

Volunteers of STEPS Camps are GVSU faculty, students, and staff; our local area engineering and manufacturing industries; and local radio-controlled airplane groups. These people have stepped forward to help make your camp experience an educational and memorable one. We believe you will sense their support and enthusiasm for your success in many ways as you enjoy this STEPS Camp adventure!

Sincerely,

Sara Maas, Camp Director
Seymour and Esther Padnos College of Engineering & Computing

INTRODUCING THE CAMP STAFF

Sara Maas, Camp Director: Sara is the Student Services Outreach Coordinator for the Padnos College of Engineering and Computing. Sara works in outreach, developing programs to introduce computing and engineering to local students. She has an Associate's degree in Technical Drafting and Tool Design and a Bachelor's degree in Plastics Engineering Technology from Ferris State University. She also has a Master of Science in Engineering from GVSU, focusing on Manufacturing Operations. She worked locally in the injection molding industry before joining Grand Valley.

Ryan Aldridge, Lead Technician: Ryan is the Engineering Laboratories Supervisor at Grand Valley State University's School of Engineering, and the vice chair of the IEEE EMC Chapter of West Michigan. He has been involved with the STEPS program for the past 5 years, and has been the Lead STEPS Technician since the spring of 2017. He has 4 years of industry and academia experience in controls and embedded systems engineering. Before coming to GVSU, he was a controls engineer at JR Automation where he designed robotic controls systems for the automotive and aerospace industry. He is currently working on his Master's Degree in Electrical and Computer Engineering at GVSU. His thesis research involves designing CMOS (complementary Metal Oxide Semiconductor) imaging hardware for FPGA (Field Programmable Gate Array) pattern recognition applications.

Lora Moomey, PCEC Student Services Secretary: Lora supports Advising and Outreach activities for the Padnos College of Engineering and Computing as the Student Services Secretary. She assists the Outreach staff in their continuing efforts to expand programs and activities exposing K-12 students to the fields of Engineering, Computer Science, and Information Systems. Prior to joining GVSU she was a manufacturing administrative assistant for a local manufacturer of automotive dies, molds, and automation systems.

STEPS Camp Lead Teachers

Cathy Baisden: Cathy completed her undergraduate degree at GVSU. For her undergraduate degree Cathy studied biology, geology, and chemistry. Cathy also completed her Masters degree in Biology Education at GVSU. Cathy Baisden, Lead Teacher, is a high school science teacher at W.K. Kellogg Preparatory High School in Battle Creek, Michigan. Cathy teaches biology and ACT prep. She loves being outdoors and her favorite hobbies are scuba diving, rock climbing, martial arts, and swimming.

Amy Stone: Amy Stone comes to STEPS with lots of aviation experience under her belt. Amy is a science specialist at Forest Hills Central High School, teaching Physics and AP Physics for over 20 years. Amy is a graduate of Rockford High School. She continued her education at Grand Valley with a major in Physics, a minor in Mathematics, and a Masters of Education degree in Physics Education. Amy and her husband, Ken, have three kids, with the youngest being 11 years old. Ken was an airline pilot for a few years, but wanted to stay home more with his family. He now works in marketing at a local company out of Rockford, MI. He also serves as the corporate pilot for that company!

Chelsea Kattleman is the STEPS Photographer.

STEPS Camp Counselors

STEPS Camp Counselors are full-time students at GVSU. They are all studying in the STEM-related fields or are pursuing a master degree in Education. They bring with them many years of camp counselor experience. The counselor to student ratio will be one counselor for every 5-6 campers. Counselors will guide the campers throughout the course of the camp.

The 2020 STEPS Camp Counselors are:

Lillian Duce – B.S. Biomedical Sciences
Kelly Hancox – B.S. Computer Science, minors in Chinese and psychology
Naomi Koster – B.S. Biology & STEPS camper
Collin Louis – B.S. Biomedical Sciences
Jenna Russell – B.S. Engineering
Mollie VanOrsdol – M.Ed. School Counseling
Christopher Kroupa – B.A. Economics & Finance
Kayla Lett – B.S. Engineering

Coordinating Organizations at Grand Valley State University

Padnos College of Engineering and Computing

www.gvsu.edu/pcec

- Dr. Paul D. Plotkowski, Dean
- Dr. Timothy L. Born, Associate Dean
- Casey Thelenwood, Assistant Dean

Partnering Community Organizations

- Warped Wings Radio Control Club: Greg Markley ~ gmkly@sbcglobal.net
<http://home.comcast.net/~warpedwings>
- Wolverine Skyhawks Model Aircraft Club: Eric Pipenger ~ eric@wolverineskyhawks.com
<https://www.wolverineskyhawks.com/>
- West Michigan Aerobats ~ Tom Wroblewski

Camp Registration Information & Daily Operations

Monday Check-in

Time: 7:30 AM – 8:30 AM

Location: Campers should report to the Innovation Design Center (see map on page 13). We will make sure we have all necessary information for each camper and give out group assignments* and t-shirts.

Parking: GVSU is an all-permit campus. We have made specific parking arrangements for parents to park in the Seward Ramp (see map on page 11). Please do not park in any other lots on the Pew Campus.

***Team Assignments:** All campers will be assigned to a color team before the camp begins. There will be four teams of ~12 campers; each with two counselors per team. Campers will receive their team assignment at orientation. We do not accommodate team assignment requests. Please welcome this as an opportunity to make new friends.

Tuesday-Thursday Check-in and Parking

Time: 7:45 AM – 8:00 AM

Location: Please park in the Seward Ramp. Counselors and staff will be waiting on the bottom level of the ramp to receive the campers for the day. **You must sign in your child with their counselor or a STEPS staff member.** Counselors and staff will walk the campers over to the IDC as a group. Camp activities begin promptly at 8:15 AM. Please do not park in any other lots on the Pew Campus.

Monday, Tuesday, Wednesday Check-out

Time: 5:30 PM (Please be prompt)

Location: Campers will be brought to the bottom level of the Seward Ramp at 5:30 PM. Parents can pick up their child from this ramp. **You must sign-out your child with their counselor or a STEPS staff member.** A parent or an alternate listed on the *Permission for Participant Release & Graduation RSVP form* should be the signature on the sign out sheet.

Thursday Check-out and STEPS Graduation Fly

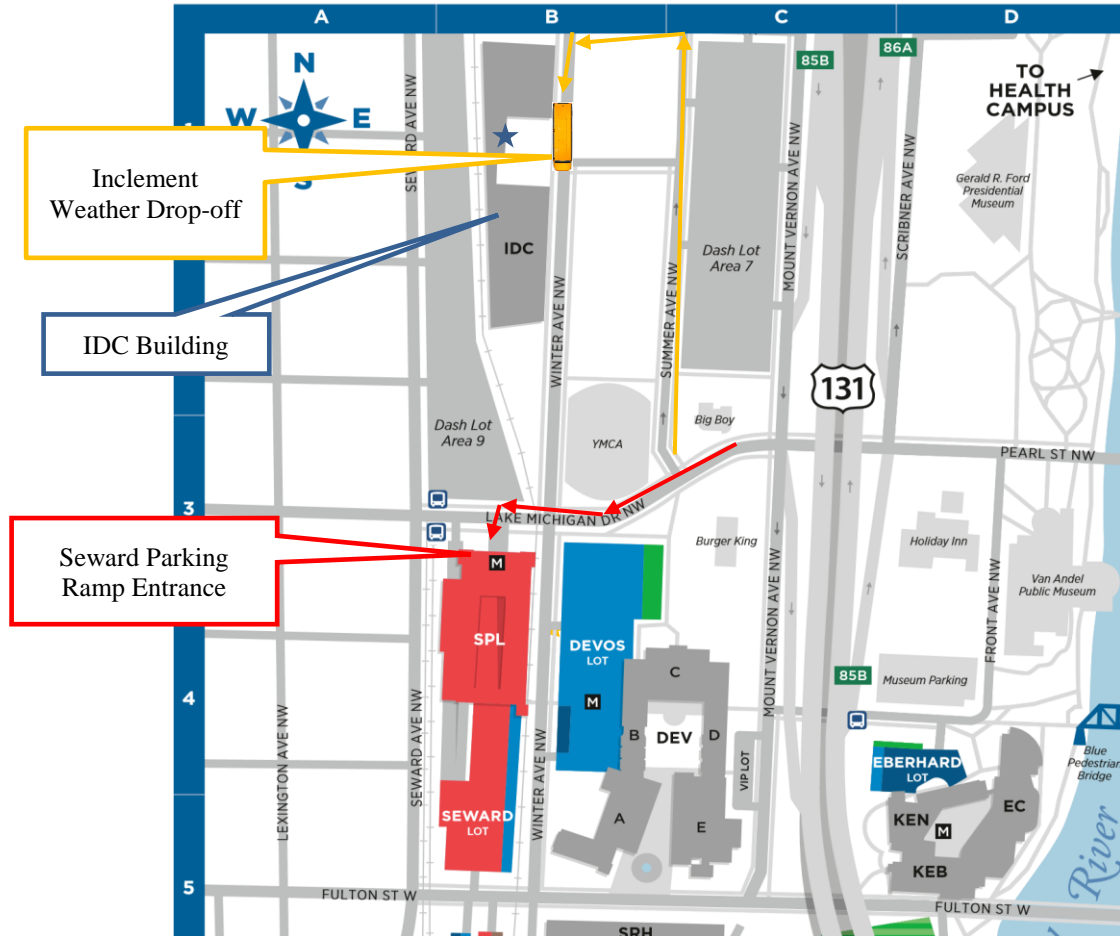
All parents are invited to attend the fly ceremony which will be held at the Warped Wings Fly Field on Alger St. in Allendale, MI. from 5:30 – 8:30 PM on Thursday. Weather permitting, we will start with a pizza party and small graduation ceremony at 5:30 PM and the campers will fly their radio-controlled glider airplanes beginning at 6:30 PM. Parents can dismiss with their child at the conclusion of their flying experience or are welcome to stay for the entire time; but no later than 8:30 PM. Parking will be available at the fly field. Please bring lawn chairs or a blanket for seating. You will be asked to sign out your child with one of the camp's staff members at the fly field. Campers will be able to bring their airplane home. A map to Warped Wings Fly Field is included in this handbook (see page 16). We will not be transporting your child back to the GVSU Campus. *If you are unable to attend the Graduation Fly, you must make the necessary arrangements to pick up your son/daughter at the Warped Wings Fly Field before 8:30 PM.

**Students with transportation scholarship may ride home with their family or will be transported home from the fly field and will arrive home between 9:00-9:30 PM.*

Check-in/Check-out days and times. Your promptness will be appreciated.

	Check-in		Check-out	
	Time	Location	Time	Location
Monday	7:30am- 8:30am	Innovation Design Center, Pew Campus * Please park in the Seward Parking Ramp and walk your child to the Innovation Design Center	5:30pm	Seward Parking Ramp
Tuesday	7:45 am	Seward Parking Ramp	5:30 pm	Seward Parking Ramp
Wednesday	7:45 am	Seward Parking Ramp	5:30 pm	Seward Parking Ramp
Thursday	7:45 am	Seward Parking Ramp	5:30pm- 8:30pm	Warped Wings Fly Field, Alger St., Allendale, MI.

ROBERT C. PEW GRAND RAPIDS CAMPUS



INNOVATION DESIGN CENTER (IDC)

227 Winter Ave. NW

Grand Rapids, MI 49504

Directions to Pearl Street: (becomes Lake Michigan Dr.)

From the West: I-196 East to US-131 South (77B). Keep right to exit at Pearl St. (85B). Turn right on Pearl St.

From the East: I-196 West to the Ottawa St. exit (77C). Follow Ottawa St. south to Pearl St. Turn right on Pearl St. following it just beyond the US-131 overpass.

From the North: US-131 South to Pearl St. exit (85B). Turn right on Pearl St.

From the South: US-131 North to Pearl St. exit (85B). Turn left on Pearl St.

Vehicle Parking from Pearl Street

Continue West on Pearl St. / Lake Michigan Drive to the Seward Parking Ramp. After passing through the Winter Ave intersection, turn left into the ramp. **Note:** Use the crosswalk at the light at Lake Michigan Drive and Winter Ave. The IDC building is approximately 1 block north on Winter.

Inclement Weather Directions from Pearl Street

Bus Drop-off: Turn right on Summer Ave. (between Big Boy's and YMCA). Turn left on Douglas St. Turn left on Winter Ave. (South) to arrive at IDC. Students can be dropped-off curbside in front of the IDC building.

STEPS CAMP POLICIES/RULES

The following policies and rules were established to keep all campers and staff safe, and to make the camp enjoyable for all.

Food and Snacks

Campers are provided with lunch, beverages, and snacks each day Monday-Thursday. On Thursday a pizza party will also be provided in the evening at the Fly Field.

Medications

If your child needs to take medication during camp hours, please label all medication (prescription and over-the-counter) with the camper's name, dosage, and times to take the medication. Parent or guardian who would like any medications administered by a counselor or STEPS staff member, should submit these medications to a Lead Teacher and should review instructions when the camper checks in. Medication will be administered appropriately by the camp counselors and/or STEPS staff member.

Phone Calls

Campers will not be allowed to make phone calls during camp unless there is an emergency. If a parent needs to contact a camper, please use one of the numbers listed here.

Emergency Contact Information

Sara Maas, STEPS Camp Director

Office: 8:00 AM – 5:00 PM, (616) 331-6025 or (616) 331-6260

After office hours: (616) 307-1452

Phone Policy

We understand that campers want their phones. However, they are a huge distraction during class, and they create privacy issues for other campers. We will enforce a phone policy so that all the campers may enjoy the same experience. Phones will remain in campers' bags for the duration of the day, including breaks, lunches, and field trips. They must be turned off or silenced. If there is a time when it is appropriate for campers to use their phones, counselor(s) or staff will let them know.

A camper will receive a verbal warning upon first offense. Upon a second offense, STEPS camp reserves the right to hold on to the phone for the rest of the day.

Zero Tolerance Policy

STEPS has a zero tolerance policy on the use of drugs, alcohol, tobacco, and physical damage to property, stealing, self-injury, and unruly behavior. Any camper engaging in these activities will be sent home immediately. We will notify the parents/legal guardian and it will be their responsibility to arrange immediate transportation home. Parents will be charged for any damages incurred.

General Rules Please review with your child

- Campers are expected to respect and follow the directions of the counselors and instructors.
- Campers should ALWAYS be with their counselor(s) unless they have permission to be somewhere else.
- Always ask permission from counselor(s) or staff to use restroom or to get a drink from the water fountain
- Be punctual as a courtesy to others.
- Never wander off on your own.
- Inconsiderate or rude behavior will not be tolerated. If you have a problem with any of the other campers, try to work it out. If that doesn't work, go to your counselor.
- Avoid all forms of horseplay including piggyback rides, wrestling, hitting, kicking, pinching, and picking each other up.
- Keep hands and feet to yourself – respect fellow campers.
- If you do not feel well, tell your counselor(s).
- Do not walk around the building or any area **without** a staff person and/or “buddy system” camper
- If there is a problem, notify a staff member immediately.
- Always pick up after yourself and put materials away, as directed.
- Only staff are permitted in equipment areas and office.
- Profanity will not be tolerated (serious offense).
- Respect other campers, staff, equipment, facilities, and yourself.
- Stay in program areas with your group at all times.

Behavior/Discipline Plan

Behavior Policy

The staff at STEPS will strive not only to provide fun and learning experiences, but also to stress respect for self and others. The following procedure will be followed when children misbehave or break camp rules. We reserve the right to bypass one or more steps in the process if a situation warrants. Please review the rules with your child and make sure they are understood.

We believe that you as a parent/guardian will appreciate knowing of any problem that your child may experience. STEPS reserves the right to suspend or expel any camper from the program who poses serious continual discipline problems, whether or not all of the steps in our discipline procedure have been completed.

Minor Offenses:

Disrespect of staff or participants (cutting in line, shushing someone, excluding other campers), inappropriate behavior (vulgar language, inappropriate gestures and/or dancing, rowdiness/disruptive behavior) or breaking general program rules.

Consequences:

- * 1st Offense – Verbal warning & a note in file
- * 2nd Offense – Loss of morning or afternoon activities and notification of parents.
- * 3rd Offense –Termination from program or session. This will be up to the Camp Director's discretion.

Serious Offenses:

Endangering another person's well-being, reckless actions, taunting or challenging staff or participants, swearing or verbal abuse of staff or participants, stealing or destruction of property, and general disregard for teachers, staff, volunteers, and program. If we need to remove a camper from program immediately, the parent will be notified.

Consequences:

*1st Offense – Call to parent/guardian regarding the problem. Camper will be removed from activities and placed with chaperone. Camper will not be able to participate for the rest of the day.

* 2nd Offense – Call to parent/guardian regarding the problem. Termination from Program. This will be up to the Camp Director's discretion.

What to Bring

- ✈ Two camp T-shirts in your group color will be provided and must be worn during camp. (You may want to launder your shirts throughout the week.)
- ✈ Tennis shoes (**Closed toe shoes are required**).
- ✈ Please dress appropriately for the weather. Most activities will be inside; however, we will be outdoors when walking between activities. Layers recommended.
- ✈ Personal medications (must be checked in with staff at orientation)

What to Wear and What to Bring

	<u>Monday</u>	<u>Tuesday</u>	<u>Wednesday</u>	<u>Thursday</u>
Required	Shorts or Pants Sneakers, tennis shoes Pony tail/headband	Long pants or Capris Sneakers, tennis shoes Pony tail/headband	Long pants or Capris Sneakers, tennis shoes Pony tail/headband	Long pants or Capris Sneakers, tennis shoes Pony tail/headband
Optional	Sweatshirt or jacket Sunglasses or hat Card game or book	Sweatshirt or jacket Sunglasses or hat	Sweatshirt or jacket Sunglasses or hat	Shorts Sweatshirt or jacket Sunglasses or hat Sunscreen & bug spray Book
NO!!!	Strappy sandals, Crocs, Flip Flops, heels			

What Will be Supplied to You

- ✈ Backpack for all your goodies
- ✈ STEPS Camp T-shirt (Must be worn daily. Please launder as necessary.)
- ✈ Lunch, snacks, and beverages each day
- ✈ Water bottle
- ✈ Notebook
- ✈ Pens and pencils
- ✈ Materials for constructing your glider airplane

You are invited to attend the STEPS Camp Graduation Fly Night

Thursday, Week One: June 18, 2020

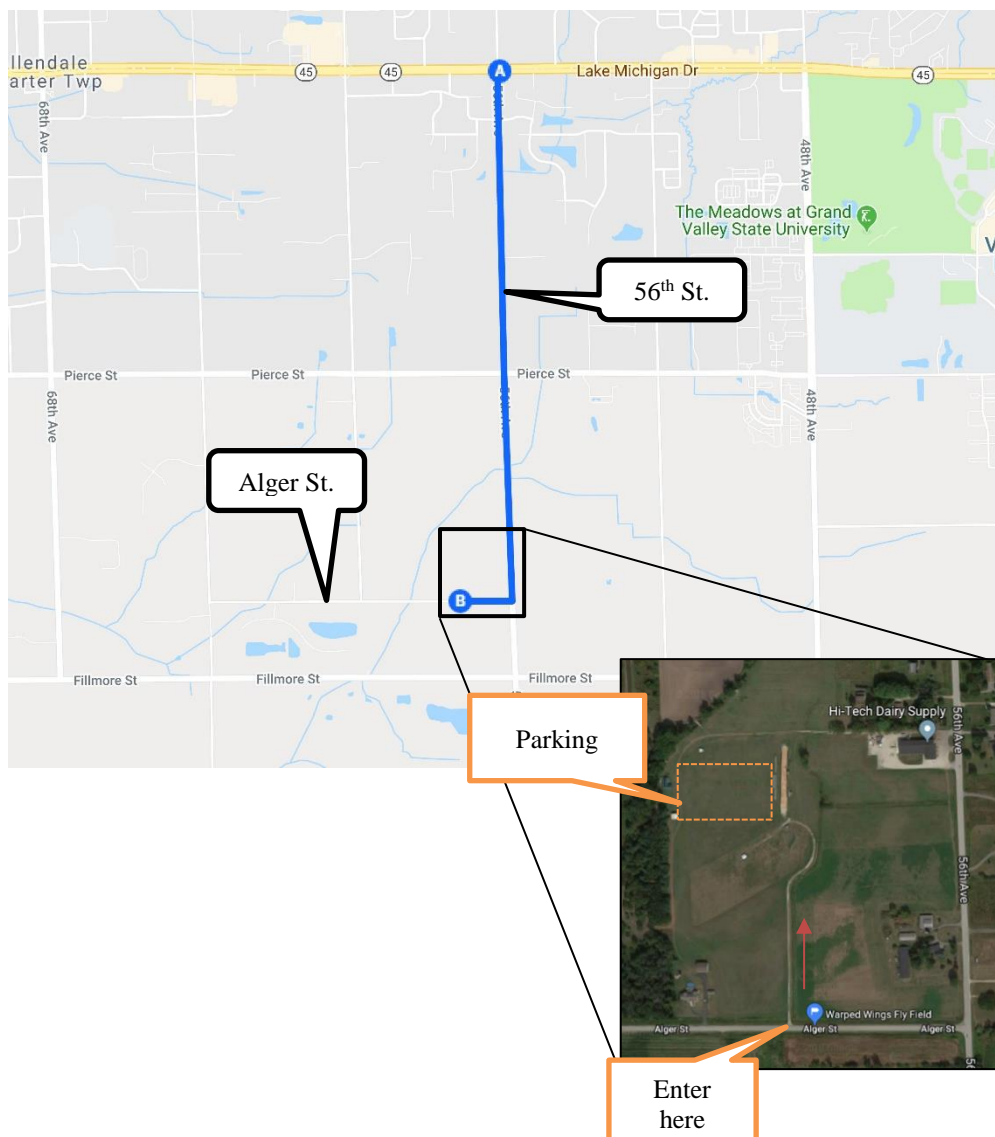
Thursday, Week Two: June 25, 2020

5:30 to 8:30 PM

*Warped Wings Fly Field
Alger St., Allendale, MI 49401*



Participants will be receiving an acknowledgement of their participation. Your child will be flying their radio-controlled glider airplane and the activities will include a pizza party! Tables and chairs will be provided under a tent for the pizza party; however, it is suggested that you bring lawn chairs or a blanket for seating during the “fly”.



Conversation Starters

Here are some things to ask your camper about their day.

Monday

What the campers did: Your son or daughter had Orientation activities, team building exercises, lunch, and then headed out to the Air Zoo in Battle Creek.

Ask them:

1. Tell me about one new person you met today.
2. What are your counselors like?
3. What kind of activities did you do for the team building?
4. What kind of things did you do at the Air Zoo?

Tuesday

What the campers did: Your child learned about aerodynamics, coding, CAD, and how an airplane can fly. They also started building components for their airplane.

Ask them:

1. How did you make a nose cone?
2. How big is your airplane going to be when it's all done?
3. What did you draw in CAD?
4. What kind of things could you program the Circuit Playground Express?

Wednesday

What the campers did: Your child completed building their airplane, built a catapult, practiced on a flight simulator, and toured an investment casting facility.

Ask them:

1. How did you decorate your plane?
2. How did your team do in the catapult competition?
3. Did you land your plane safely on the flight simulator?
4. What kind of materials do they use in casting turbine engine blades at Howmet?
5. What kind of machines did you see on the plant tour?

Thursday

What the campers did: Your child went for a tour of a private hangar, went to the Aviation Academy, relaxed with friends, and met with a FIRST Robotics team.

Ask them:

1. How many different kinds of aircraft did you see at the hangar?
2. What did you think of the Aviation Academy?
3. What kind of challenge is the FIRST robot built to defend?
4. Who was the engineer mentor that you ate lunch with?