

2019 ACTIVITY GUIDE

4-H Exploration Days

CELEBRATING
50 YEARS



more to explore

JUNE 19-21, 2019



STATE 4-H AWARDS PROGRAM

JUNE 19-20, 2019

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* Sessions are listed alphabetically by title within their subject area.

Welcome

Welcome to the 50th annual 4-H Exploration Days! More than 2,200 participants are enrolled and we're glad you're here. Have fun and learn as much as you can during the event. When you return home, apply what you've learned and share it with others. Please enjoy your stay and all that 4-H has to offer.

Kettunen Center

The Natural Place for Discovering 4-H

Kettunen Center is a statewide 4-H training facility located near Tustin in northern lower Michigan. It's a really cool place for 4-H volunteers and youth members to learn more in specific 4-H project areas such as companion animals, environmental and outdoor education, veterinary science, food and fitness, visual arts, citizenship, leadership, and service learning. While at Kettunen Center, you can also enjoy hiking, fishing, swimming, boating, snowshoeing, and cross-country skiing. If you're a teen leader or adult volunteer in 4-H, check out the 4-H volunteer workshop schedule online at https://www.canr.msu.edu/4h_volunteer_training. The 2019-20 workshop schedule will be on the web by late summer. You can also talk to your local MSU Extension 4-H staff to find out more about statewide 4-H workshops.



SCHEDULE

Page 13 has the main shuttle bus, skating shuttle bus, and star-gazing shuttle van schedules.

WEDNESDAY, JUNE 19

6:30–8:30 a.m.

Breakfast for Tuesday Early Arrivals

8–11 a.m.

Check-In

10:15 a.m.–Noon

Half-Hour County Meetings (see signs posted on housing floors for your county's time & location)

10:45–11 a.m.

Host Orientation (C-140 Akers Hall)

10:30 a.m.–1:15 p.m.

Lunch

11:45 a.m.–Noon

Host Orientation (C-140 Akers Hall)

12:30–1:15 p.m.

State 4-H Awards Assembly

1:30–4 p.m.

First-Half Sessions

1:30–5 p.m.

State 4-H Awards Interviews (senior & group award delegates)

1:30–5 p.m.

State 4-H Awards Junior Leadership Development Program (junior delegates)

1:45–3:45 p.m.

Full Sessions

4:45–5 p.m.

Youth–Chaperone County Meetings on Assigned Floors (chaperones may adjust time slightly)

4:30–6:45 p.m.

Dinner

8–9:15 p.m.

Wharton Center Entertainment (ending time is approximate)

8–10:45 p.m.

Other Evening Activities

11–11:15 p.m.

Youth–Chaperone County Meetings on Assigned Floors (chaperones may adjust time slightly)

11:15 p.m.

Participants in Assigned Rooms

Midnight

Quiet in Residence Halls

THURSDAY, JUNE 20

6:30–8:30 a.m.

Breakfast

8:30–11 a.m.

State 4-H Awards Recognition Program (by invitation only)

8:30–11 a.m.

First-Half Sessions

8:45–11:15 a.m.

Full Sessions

10:30 a.m.–1:15 p.m.

Lunch

1:15–3:15 p.m.

Full Sessions

1:30–4 p.m.

Second-Half Sessions

4:45–5 p.m.

County Meetings or Youth–Chaperone County Meetings (counties may select meeting format & adjust time slightly)

4:30–6:45 p.m.

Dinner

8:15–10:30 p.m.

Dance & Other Evening Activities

11-11:15 p.m.

Youth-Chaperone County Meetings on Assigned Floors (chaperones may adjust time slightly)

11:15 p.m.

Participants in Assigned Rooms

Midnight

Quiet in Residence Halls

FRIDAY, JUNE 21

6:30-8:15 a.m.

Check-Out

6:30-8:30 a.m.

Breakfast

8:15-10:45 a.m.

Full Sessions

8:30-11 a.m.

Second-Half Sessions

11 a.m.-1:30 p.m.

Check-Out

11:15-11:30 a.m.

Youth-Chaperone County Meetings on Assigned Floors (chaperones may adjust time slightly)

10:30 a.m.-1:15 p.m.

Lunch

2 p.m.

Residence Halls Locked

SPECIAL ATTRACTIONS



ENTERTAINMENT

Kyle Scheele: Author. Speaker. Cardboarder. Better-World-Builder.

Wednesday, 8-9:15 p.m.

Wharton Center for Performing Arts

Kyle Scheele is an inspiring author, speaker, and cardboarder who has challenged tens of thousands of students across the nation to build a better world. Kyle will inspire you to live a better story, make a difference, and use your gifts and talents to build a better world. His stories will have you rolling with laughter.

Name badge required.

4-H EXPLORATION DAYS T-SHIRTS

All participants will receive an event T-shirt at check-in as part of the registration package. Extra shirts available at General Headquarters in the West Akers Hall Lounge while supplies last.

2019 extras - \$10 each

Past years' extras - \$3 each

MORE COOL THINGS TO SEE & DO AT MSU DURING FREE TIME

Tour MSU facilities, dance, star-gaze, and more! There are many opportunities to explore the MSU campus during the late afternoon and evening on Wednesday and Thursday. A few examples follow; see the Recreation Activities section (pages 20 to 23) for details.

- Bowling
- Dairy Store
- Michigan 4-H Children's Garden
- MSU Horse Teaching & Research Center Guided Tour
- Planetarium Shows & Star-Gazing at the Observatory

SPORTS EQUIPMENT

**Wednesday & Thursday
Residence Hall Front Desks**

You can check out sports equipment

from the front desk in your residence hall lobby. You'll need your name badge and room key to check out equipment such as:


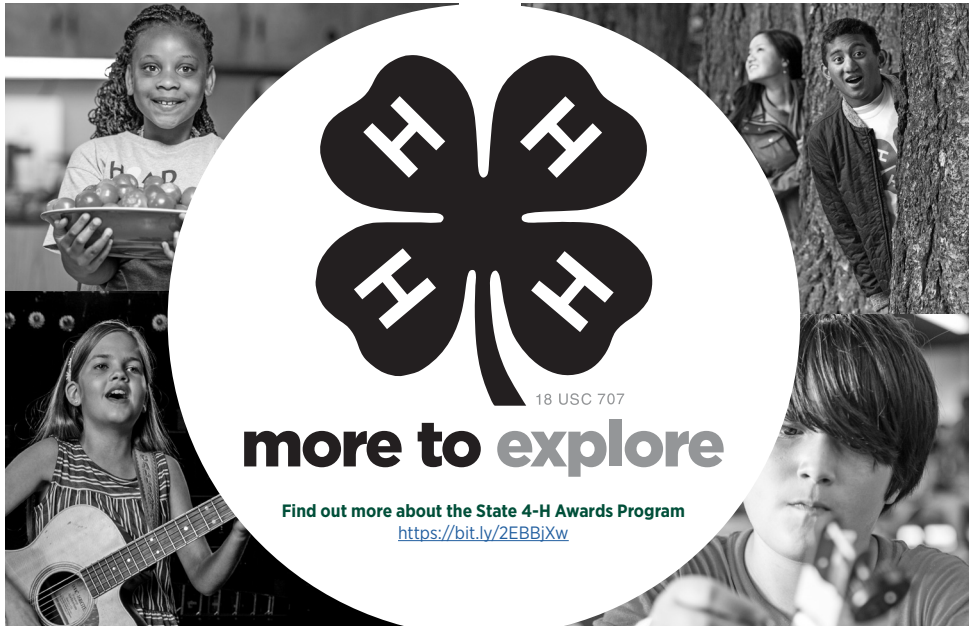
- Basketballs
- Bocce ball sets
- Footballs
- Frisbee flying discs
- Soccer balls
- Volleyballs (nets are set up outside halls)

4-H AWARDS ASSEMBLY PARTICIPANTS MEETING

Wednesday, 12:30-1:15 p.m.

C-140 Akers Hall

See the schedule and the *4-H Awards Program Activity Guide* for more information.



18 USC 707

more to explore

Find out more about the State 4-H Awards Program
<https://bit.ly/2EBBiXw>

FIRST-HALF SESSIONS (100-156 & 500-532)

Meet:

Wednesday 1:30-4 p.m.

Thursday 8:30-11 a.m.

ANIMAL & VETERINARY SCIENCE

- 100. Competitive Horse Judging Basics**
W-T: 1255 Anthony Hall
- 101. Dairy Reproduction & Artificial Insemination**
W-T: Field Trip (MSU Dairy Teaching & Research Center)
- 102. Goat Fitting & Showing**
W-T: Field Trip (MSU Pavilion, Classroom B & east Wash Racks)
- 500. Goat Yoga**
W-T: Field Trip (MSU Pavilion, Auditorium)
- 103. Harnessing Your Passion: Careers in the Horse Industry**
W-T: Field Trip (MSU Horse Teaching & Research Center)
- 104. Horse Housing**
W-T: Field Trip (MSU, Horse Teaching & Research Center)
- 105. Horse Manure Happens - What Do I Do With It All?**
CANCELLED
- 106. Introduction to Dairy Cattle**
W-T: Field Trip (MSU Dairy Teaching & Research Center)
- 107. Livestock Nutrition & Management Basics**
W-T: Field Trip (MSU Pavilion, Classroom C & Show Arena)

- 108. Meat Goats: From Selection to Show Ring**

W-T: Field Trip (MSU Pavilion, Exhibit Area & Show Arena)

- 109. Reptiles: Cold-blooded Friends**

W-T: C103 Holmes Hall

- 501. Working With K-9 Search & Rescue Dogs**

W-T: Field Trip (MSU Pavilion, east end of South Barn)

BUSINESS & ENTREPRENEURSHIP

- 110. Five Principles of Marketing Your 4-H Livestock**
W-T: 152 Natural Resources
- 111. Life on a Dairy Farm**
W: 1260 Anthony Hall
T: Field Trip (MSU Dairy Teaching & Research Center)
- 112. Turning Ideas Into Products**
W: 115 Berkeley Hall
T: Field Trip (walking tour to The Hatch)

CAREERS

- 113. Keeping Kids Engaged & Having Fun**
W: 1 Natural Resources
T: Field Trip (MSU Child Development Lab, Haslett)
- 114. Working Safely on the Farm**
W: E111 Fee Hall
T: Field Trip (MSU Agronomy Farm)

CITIZENSHIP, LEADERSHIP & SERVICE

- 115. Beat the Clock: 4-H Escape Room**
W-T: General Headquarters, West Akers Hall Lounge
- 116. Hungry Planet: Feeding 9 Billion People**
W: C135 Akers Hall
T: Field Trip (Greater Lansing Food Bank)
- 117. Michigan Government & History**
W: Field Trip (Capital Building, Lansing)
T: Field Trip (Michigan Historical Museum, Lansing)
- 118. Political Leadership in My Club & Community**
W: 255 Baker Hall
T: Field Trip (Veterans Memorial Courthouse, Lansing)

CLOTHING & TEXTILES

- 502. Billabong & Pocket Bags, Sassy Sacks & T-Shirt Backpacks**
W-T: G-32 Hubbard Hall
- 119. Locker Hooking**
W-T: C-113 Holmes Hall (Bamboo Room, on left inside Sparty Convenience Store)
- 503. Sew a Fleece & Flannel Quillow**
W-T: 129 Hubbard Hall
- 120. Sewing With Jelly Roll Fabrics**
W-T: 132 Hubbard Hall
- 121. T-Shirt Remodeling & Repurposing**
W-T: 128 Hubbard Hall

COMMUNICATIONS

- 504. American Sign Language 1**
W-T: 306 Bessey Hall

ENVIRONMENTAL EDUCATION

- 505. Birds of a Feather**
W: G-29 Hubbard Hall
T: Field Trip (Corey Marsh Ecological Research Center, Laingsburg)
- 506. A Bug's World**
W-T: 352 Natural Science
- 507. Caterpillars in Your Club**
CANCELLED
- 508. Fishing Basics: Tips & Tricks for Beginners**
W-T: 202 Urban Planning & Landscape Architecture
- 122. Importance of Pollinators**
W-T: B113 Plant & Soil Sciences
- 509. Michigan Butterflies, Skippers & Moths**
W-T: 401 Natural Science

FOOD, NUTRITION & FITNESS

- 123. Body & Movement**
W-T: 203 IM Sports West
- 124. Fun With Food Art**
W-T: C212 Holmes Hall (Spartan Room)
- 125. Healthy Desserts Cooking Class**
W-T: G14 South Hubbard Hall (kitchen in basement below lobby)
- 126. Hocus Pocus: Magical Mindfulness**
W-T: 300 Human Ecology
- 127. International Garden Chefs**
W-T: B-102 Plant & Soil Sciences
- 128. Produce: Prep to Preservation**
W-T: C100 Holden Hall (community kitchen)
- 510. Vegetarian Cooking**
W-T: Field Trip (Martin Luther Chapel, East Lansing)
- 129. Whip It Up**
W-T: 113 Biochemistry

INTERNATIONAL LANGUAGES & CULTURES

130. ***Dzien Dobry!* Polish Language & Cultures**
W-T: 8 Morrill Hall of Agriculture
131. ***iHola!* Hispanic & Latino Language & Cultures**
W-T: 48 Morrill Hall of Agriculture
132. ***Konnichiwa!* Japanese Language & Cultures**
W-T: 305 Bessey Hall

MONEY MANAGEMENT

133. **Coin Collecting for Fun & Profit**
W-T: 455 Baker Hall
134. **Keys to My First Car**
W-T: 1210 Anthony Hall
135. **Make More Money at the 4-H Livestock Auction**
W-T: 221 Natural Resources
136. **Money Smart Investing for Teens**
W-T: 102 Farrall Agricultural Engineering

PERFORMING ARTS

137. **All That Jazz**
W-T: 34 IM Sports Circle
138. **Chamber Music**
W-T: 219 Music Practice
139. **Music Theory**
W-T: 419 Music Practice

PERSONAL LIFE SKILLS DEVELOPMENT

140. **Community Service & You**
W: 225 Natural Resources
T: Field Trip (Fenner Nature Center)
141. **Crafting Character**
W-T: 321 Baker Hall

142. **Getting Started in Michigan 4-H Awards**
W-T: A330 Wells Hall

RECREATIONAL SPORTS

511. **Basketball Skills for Fun & Recreation**
W-T: IM Sports West, Gym 3 (second floor)
512. **Checkmate**
W-T: 100 Packaging
513. **Disc Golf**
W-T: Field Trip (Pine Hill Golf Course, Laingsburg)
514. **Ice Skating**
W-T: Field Trip (Suburban Ice, East Lansing)
515. **In-Line Skating**
W-T: A326 Wells Hall
143. **Junior Quidditch**
W-T: IM East Field
144. **Line Dancing**
W-T: IM Sports East, Multipurpose Rooms A & B
516. **Pickle-ball**
W-T: IM Sports East, Rear Gym
517. **Run for Your Life**
W-T: A324 Wells Hall
145. **Senior Slow-Pitch Softball**
W-T: IM East Field
518. **Tour de MSU – A Bike Tour of Campus**
W-T: B-10 Bessey Hall (MSU Bike Service Center)
519. **Volleyball for Fun & Recreation**
W-T: IM Sports West, Sports Arena

SCIENCE, ENGINEERING & TECHNOLOGY

- 146. Basic Web Page Design**
W-T: 415 Computer Center
- 520. Beginning Model Rocketry**
W: C-136 Akers Hall
T: C-136 Akers Hall & Model Rocketry Launch Site (cross train track ONLY at crosswalk due south of Fee Hall)
- 147. Junk Drawer Robotics**
W-T: 49 Morrill Hall of Agriculture
- 148. Showy Science**
W-T: A-166 Plant & Soil Sciences
- 149. Super Collisions of Atomic Nuclei**
W-T: National Superconducting Cyclotron Laboratory/Facility for Rare Isotope Beams (enter curved glass lobby from S. Shaw Lane next to Chemistry building)

SHOOTING SPORTS

- 150. Gobble Heads**
W-T: Field Trip (Demmer Center, Lansing)
- 521. Introduction to Archery**
W-T: Field Trip (Demmer Center, Lansing)
- 522. Introduction to Pellet Rifle**
W-T: Field Trip (Demmer Center, Lansing)
- 523. Quack & Honk**
W: Field Trip (Demmer Center, Lansing)
T: Field Trip (MSU Inland Lakes Research Center)
- 524. Shotgun Shooting Trap**
W-T: Field Trip (Michigan Trap Shooting facility, Mason)

VISUAL ARTS & CRAFTS

- 525. 4-H Life Skills & Painting**
W-T: A182 Plant & Soil Sciences
- 526. Beginning Basketweaving**
W-T: E182 Holmes Hall (Lounge)
- 527. Beginning Drawing**
W-T: C101 Holmes Hall
- 528. Beginning Leathercraft**
W-T: C-133 Akers Hall
- 529. Beginning Miniature Model Painting**
W-T: A-186 Plant & Soil Sciences
- 530. Fun With Floral Design**
W-T: B-109 Plant & Soil Sciences
- 531. Goat's Milk Soap Making & More**
W-T: 117 Biochemistry
- 151. Holiday Ornaments From Around the World**
W-T: C-102 Holmes Hall
- 152. Hot Glass Jewelry Making**
W: C-5 Holmes Hall (Lyman Briggs Laboratory, basement)
T: Field Trip (Delphi Glass, Lansing)
- 153. Iris Paper Folding**
W-T: E109 Fee Hall
- 154. Knitting Traditions**
W-T: C-106 Holmes Hall (auditorium)
- 155. Let's Bake Cupcakes**
W-T: C-126 Holmes Hall
- 156. Teamwork & Timbers**
W: 11 Morrill Hall of Agriculture
T: Atrium, Morrill Hall of Agriculture
- 532. Tin Punching**
W-T: C-104 Holmes Hall

SECOND-HALF SESSIONS (200-264 & 600-632)

Meet:

Thursday

1:30-4 p.m.

Friday

8:30-11 a.m.

ANIMAL & VETERINARY SCIENCE

200. Angora Rabbit Care

T-F: Field Trip (MSU Pavilion, Classroom A)

201. Be a Disease Detective

T-F: 1260 Anthony Hall

202. Blueprint for a Successful Beef Project

T-F: Field Trip (MSU Pavilion, southwest end of Show Arena)

203. Blueprint for a Successful Sheep Project

T-F: Field Trip (MSU Pavilion, west Wash Rack)

204. Dairy Calf Care 101

T-F: Field Trip (MSU Dairy Teaching & Research Center)

205. Dairy Field Rep in Training

T-F: Field Trip (MSU Dairy Teaching & Research Center)

206. Dairy Goat Judging

T-F: Field Trip (MSU Pavilion, Classroom B & southwest end of Show Arena)

207. Dog Obedience Tips, Tricks & Fun

T-F: Field Trip (MSU Pavilion, west end of South Barn)

208. Everything Cavy

T-F: C-102 Holmes Hall

209. Frontiers in Swine Production

T: Field Trip (MSU Swine Teaching & Research Center)
F: 1279 Anthony Hall

210. Fundamentals of Rabbit Management, Fitting & Showing

T-F: Field Trip (MSU Pavilion, east Wash Rack)

211. Getting Your Horse Show-Ring Ready

T: 1255 Anthony Hall
F: Field Trip (MSU Horse Teaching & Research Center)

600. Goat Yoga

T-F: Field Trip (MSU Pavilion, Auditorium)

212. How Does a Cow Think?

T-F: Field Trip (MSU Dairy Teaching & Research Center)

213. PAWS With a Cause & You

T: Field Trip (MSU Pavilion, west end of South Barn)
F: Field Trip (Ingham County Animal Shelter, Mason)

214. Positively Promoting Dairy Products

CANCELLED

215. Poultry Management

T: Field Trip (MSU Pavilion, Classroom C)
F: Field Trip (MSU Poultry Teaching & Research Center)

216. Poultry Showmanship

T-F: Field Trip (MSU Pavilion, Classroom D)

217. Trail Riding Basics

T-F: Field Trip (MSU Pavilion, Outdoor Arena)

- 601. Working With K-9 Search & Rescue Dogs**
T-F: Field Trip (MSU Pavilion, South Barn)

BUSINESS & ENTREPRENEURSHIP

- 218. Beat the Competition: 4-H Livestock Marketing**
T: 1257 Anthony Hall
F: Field Trip (Beef Cattle Teaching & Research Center)
- 219. Reality Farm**
T-F: 115 Berkey Hall
- 220. Turn Your 4-H Project Passion Into Profits**
T-F: 415 Computer Center

CAREERS

- 221. A Career Caring for Kids**
T: 221 Natural Resources
F: Field Trip (MSU Child Development Lab, East Lansing)
- 222. Making Stories Come Alive for Kids**
T: 223 Natural Resources
F: Field Trip (Okemos Kids Club, Okemos)
- 223. Marketing Mayhem**
T-F: C-139 Akers Hall
- 224. Venture to Adventure**
T: Field Trip (Woldumar Nature Center, Lansing)
F: C-134 Akers Hall

CITIZENSHIP, LEADERSHIP & SERVICE

- 225. Kindness: Making Positive Change Locally & Globally**
T-F: 255 Baker Hall
- 226. Service-Learning: More Than Community Service**

T-F: A-330 Wells Hall

- 227. Surviving a Zombie Apocalypse – And High School**
T-F: C-103 Holmes Hall
- 228. Teen Court & the Juvenile Justice System**
T-F: 305 Erickson Hall
- 229. Youth Crush Global Challenges**
CANCELLED

CLOTHING & TEXTILES

- 230. 5 Yards of Fabric Create a Quilt**
T-F: 132 Hubbard Hall
- 602. Billabong & Pocket Bags, Sassy Sacks & T-Shirt Backpacks**
T-F: G32 Hubbard Hall
- 231. Sew a Feed Bag Tote**
T-F: 128 Hubbard Hall
- 603. Sew a Fleece & Flannel Quillow**
T-F: 129 Hubbard Hall

COMMUNICATIONS

- 604. American Sign Language 1**
T-F: 306 Bessey Hall
- 232. American Sign Language 2**
T-F: 305 Bessey Hall
- 233. Produce Your Own TV Show**
T-F: 134 Studio E, Communication Arts & Sciences
- 234. Public Speaking for Future Rock Stars**
T-F: C-135 Akers Hall

ENVIRONMENTAL EDUCATION

- 605. Birds of a Feather**
T: G29 Hubbard Hall
F: Field Trip (Corey Marsh Ecological Research Center, Laingsburg)
- 606. A Bug's World**
T-F: 352 Natural Science

USE THE 4-H EXPLORATION DAYS APP



If you have an Internet-connected mobile device, you can replace your printed 2019 *4-H Exploration Days Activity Guide* with the event app. The app works on Android and iOS devices.

1. Visit <https://my.yapp.us/MI4HEXPO> in your favorite browser and follow the instructions on the page.
2. You'll be asked to install Yapp from the app store (if you don't have it already).
3. Open Yapp and tap "Download an existing Yapp" and the "MI 4-H Expo Days 2019" Yapp will appear.

You can also view most of the app's content from a web browser by clicking on the event graphic in the app's web page.

Support Michigan 4-H with a donation to the Michigan 4-H Foundation!

Donate now online or print the form to mail in your gift at www.mi4hfdtn.org!

What your donation does:

- Supports 4-H volunteer training.
- Helps sustain Kettunen Center as the state 4-H volunteer leader training center.
- Supports your local 4-H program if that is where you designate your gift.
- Supports the continued viability of 4-H in Michigan.

Whatever your 4-H passion, make a gift to keep 4-H Forever!

MICS 2751



Finding Your Session Location

Using the Map and Index – The centerfold map and the campus buildings and features index (page 16) will help you get around. The map edges have lines of letters (left and right) and numbers (top and bottom) that create the index coordinates. For example, the index shows that Spartan Stadium is near D-6 on the map. Find the letter D's on the map's sides, then the number 6's on its top and bottom. Draw an imaginary line between the two letters and another one between the two numbers. You'll find Spartan Stadium near where those imaginary lines cross on the map.

Use the interactive MSU map at <http://maps.msu.edu/interactive> to navigate with a smartphone. For example, type "Berkey Hall" into the search box and that building will be highlighted on the map and its address given. You can then use the map's wayfinding feature to guide you.

Field Trip Buses – If your session is going on a field trip, look for the field trip bus loading site on your map. It's near **D-12** and marked with an **F** in a box. All field trips will leave from this location at the scheduled session starting time (unless a different departure time or location is listed).

Arrive at the field trip bus loading area 15 to 20 minutes before your session's scheduled departure time, because once your bus leaves there's no other way for you to get to your session.

Shuttle Buses – Please plan to walk to activities as much as possible. Limited shuttle bus service is provided by MSU buses labeled with bright green "4-H" signs. The centerfold map shows the shuttle route. Shuttle buses stop at the places marked on the map with circled numbers. These are the only places where you can get on and off shuttle buses.

Remember: Look for bus designations and window signs that refer to 4-H, and only board 4-H buses.

Shuttle Bus Hours

Wednesday:

10 a.m. to 2 p.m.
3:45 p.m. to 8 p.m.

Thursday:

7:45 a.m. to 9 a.m.
11 a.m. to 1:45 p.m.
3:15 p.m. to 9 p.m.

Friday:

7:45 a.m. to 9 a.m.
10:45 a.m. to noon

Skating & Star-gazing Shuttle Hours (Thursday only)

To & From Skating at Munn Ice Arena: 7–9:30 p.m.

To & From Star-gazing at MSU Observatory: 9:25–10:30 p.m.

One bus will run nonstop between Holmes Hall and Munn Ice Arena.

One van will run nonstop between Holmes Hall and the MSU Observatory.

4-H Exploration Days

June 19-21, 2019

BUS INFORMATION:

 Shuttle Bus Route

1-11 Shuttle Bus Stops (Look for green A-frame bus stop signs)

F Field Trip Loading Site (Not a shuttle bus stop; E-11)

O S Skating & Observatory Outbound Shuttle Stops (D-10)

S Skating Return Shuttle Stop (C-5)

T Tour Loading Site (E-11)

PARKING INFORMATION:

CP Complimentary Parking (day & night; no permit or payment required during the event)


DPP Daytime (only) Permit Parking (permit required)


GDPP Gated Daytime (only) Permit Parking (permit & gate card required)

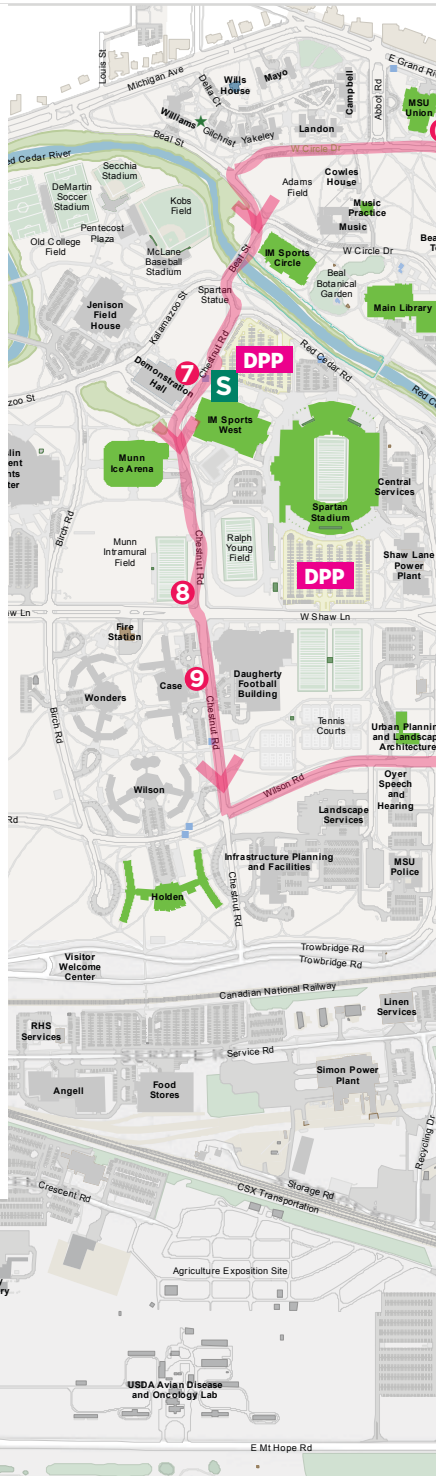
DOPP Daytime & Overnight Permit Parking (permit required)

MSU Campus Areas Used:

Buildings  Outdoor Areas 

Parking 

Estimated average walking distance within 5 minutes: 





Campus Buildings & Features We Use Map Index

Use this index to find your destinations on the centerfold map. (See the “Finding Your Session” section for directions on using the map and index to navigate campus.)

- E-8** Abrams Planetarium
- E-11** Akers Hall
- E-7** Anthony Hall
- C-9** Baker Hall
- C-6** (W. J.) Beal Botanical Garden
- B-8** Berkey Hall
- C-8** Bessey Hall
- E-8** Biochemistry
- B-8** Broad Art Museum
- F-7** Communication Arts & Sciences
- C-7** Computer Center
- E-7** Dairy Store (Anthony Hall)
- E-12** Dance Tent
- E-7** Engineering
- D-7** Erickson Hall
- E-8** Farrall Agricultural Engineering
- F-11** Fee Hall
- F-11** Field Trip Loading Site
- F-5** Holden Hall
- D-11** Holmes Hall
- G-9** Horticulture Gardens (Michigan 4-H Children’s Garden)
- F-12** Hubbard Hall
- A-7** Human Ecology
- E-10** IM East Field
- B-5** IM Sports Circle
- E-10** IM Sports East
- C-5** IM Sports West
- D-7** International Center (Spartan Bookstore)
- B-6** Main Library
- F-9** Michigan 4-H Children’s Garden
- G-11** Model Rocketry Launch Site
- C-7** Morrill Hall of Agriculture
- B-7** MSU Museum
- D-4** Munn Ice Arena
- B-6** Music Practice
- E-9** National Superconducting Cyclotron Laboratory & Facility for Rare Isotope Beams
- F-7** Natural Resources
- B-8** Natural Science
- A-7** Olin Health Center
- D-10** Owen Graduate Hall
- F-7** Packaging
- E-8** Planetarium (Abrams)
- F-9** Plant & Soil Sciences
- D-11** Skating & Star-gazing Shuttle Stops (Outbound)
- C-5** Skating Shuttle Stop (Returning)
- E-11** Softball Field
- D-7** Spartan Bookstore (International Center)
- D-6** Spartan Stadium
- E-11** Tour Loading Site
- A-6** Union Building
- E-6** Urban Planning & Landscape Architecture
- D-7** Wells Hall
- E-10** Wharton Center for Performing Arts

SECOND-HALF SESSIONS, Continued

235. The Buzz About Pollinators
T-F: A149 Plant & Soil Sciences

607. Caterpillars in Your Club
CANCELLED

608. Fishing Basics: Tips & Tricks for Beginners
T-F: 202 Urban Planning & Landscape Architecture

609. Michigan Butterflies, Skippers & Moths
CANCELLED

FOOD, NUTRITION & FITNESS

236. Art of Cheesemaking
T-F: C14S Hubbard Hall (basement kitchen)

237. Food Lab
T: 1135 Anthony Hall
F: 102 Farrall Agricultural Engineering

238. Safety & Self-Defense
T-F: IM Sports West, Gym 2

610. Vegetarian Cooking
T-F: Field Trip (Martin Luther Chapel, East Lansing)

INTERNATIONAL LANGUAGES & CULTURES

239. Chinese Language & Cultures
T-F: C-212 Holmes Hall (Spartan Room)

240. Explore the Languages & Cultures of Africa
T-F: 8 Morrill Hall of Agriculture

241. *Guten Tag!* German Language & Cultures
T-F: 48 Morrill Hall of Agriculture

242. Opening Minds Globally
CANCELLED

243. A Taste of Indian Cultures: Follow the Spice Trail

T: Owen Graduate Hall, Community Kitchen (basement)

F: Field Trip (Hindu Temple, Haslett, & Swadesh Food Mart, Okemos)

MONEY MANAGEMENT

244. Becoming an Entrepreneur - Shark Tank Style
T-F: 321 Baker Hall

245. Real-World Spending Without Real-World Risk
T-F: 455 Baker Hall

OUTDOOR ADVENTURE

246. Staying Unlost With Map, Compass & GPS
T-F: 152 Natural Resources

PERFORMING ARTS

247. Building Leadership Skills Through the Dramatic Arts
T-F: E111 Fee Hall

248. Contemporary Dance Class
T-F: 34 IM Sports Circle

249. Songwriting
T-F: 219 Music Practice

PERSONAL LIFE SKILLS DEVELOPMENT

250. Duct Tape Your Way to Life Skills
T-F: C-106 Holmes Hall

251. Finding Fun in Your Family Tree
T-F: Main Library, Red Cedar West (2nd floor west, ask for directions at Help Desk)

RECREATIONAL SPORTS

- 611. Basketball Skills for Fun & Recreation**
T-F: IM Sports West, Gym 3
- 612. Checkmate**
T-F: 100 Packaging
- 613. Disc Golf**
T-F: Field Trip (Pine Hill Golf Course, Laingsburg)
- 252. Fitness Movements**
T-F: IM Sports East, Multipurpose Rooms A & B
- 614. Ice Skating**
T-F: Field Trip (Suburban Ice, East Lansing)
- 615. In-Line Skating**
T-F: A-326 Wells Hall
- 253. It's All Fun & Games**
T-F: C-113 Holmes Hall (Bamboo Room, on left inside Sparty Convenience Store)
- 254. Junior Slow-Pitch Softball**
T-F: IM East Field
- 616. Pickle-ball**
T-F: IM Sports East, Rear Gym
- 617. Run for Your Life**
T-F: A-324 Wells Hall
- 255. Senior Quidditch**
T-F: IM East Field
- 618. Tour de MSU – A Bike Tour of Campus**
T-F: B-10 Bessey Hall (MSU Bike Service Center)
- 619. Volleyball for Fun & Recreation**
T-F: IM Sports West, Sports Arena

SCIENCE, ENGINEERING & TECHNOLOGY

- 620. Beginning Model Rocketry**
T: C-136 Akers Hall
F: C-136 Akers Hall & Model Rocketry Launch Site (cross train track ONLY at crosswalk due south of Fee Hall)
- 256. Computer Science & Coding**
T-F: 49 Morrill Hall of Agriculture
- 257. Drone Discovery**
T-F: G-31 Hubbard Hall
- 258. Genes, Beans & GMO Myth-busting**
CANCELLED
- 259. Geocaching Fun**
T-F: B-113 Plant & Soil Sciences
- 260. Getting to the STEM & Root of Root Beer**
T-F: B-102 Plant & Soil Sciences
- 261. Photoshop Basics**
T-F: 1210 Anthony Hall
- 262. Putting Infrared Radiation to Good Use**
T-F: A-159 Plant & Soil Sciences

SHOOTING SPORTS

- 621. Introduction to Archery**
T-F: Field Trip (Demmer Center)
- 622. Introduction to Pellet Rifle**
T-F: Field Trip (Demmer Center)
- 623. Quack & Honk**
T: Field Trip (Demmer Center)
F: Field Trip (MSU Inland Lakes Research Center)
- 624. Shotgun Shooting Trap**
T-F: Field Trip (Michigan Trap Shooting facility, Mason)

VISUAL ARTS & CRAFTS

- 625. 4-H Life Skills & Painting**
T-F: A-182 Plant & Soil Sciences
- 626. Beginning Basketweaving**
T-F: E-182 Holmes Hall, Lounge
- 627. Beginning Drawing**
T-F: C-101 Holmes Hall
- 628. Beginning Leathercraft**
T-F: C-133 Akers Hall
- 629. Beginning Miniature Model Painting**
T-F: A-186 Plant & Soil Sciences

- 263. Cards for All Celebrations**
T-F: G-30 Hubbard Hall
- 264. Fairy Gardens**
T-F: A-166 Plant & Soil Sciences
- 630. Fun With Floral Design**
T-F: B-109 Plant & Soil Sciences
- 631. Goat's Milk Soap Making & More**
T-F: 117 Biochemistry
- 632. Tin Punching**
T-F: C-104 Holmes Hall

FULL SESSIONS (300-312)

Meet:

- Wednesday** 1:45-3:45 p.m.
Thursday 8:45-11:15 a.m.
1:15-3:15 p.m.
Friday 8:15-10:45 a.m.

ANIMAL & VETERINARY SCIENCE

- 300. Introduction to Livestock Judging**
W-F: Field Trip (MSU Pavilion, southwest end of Show Arena & Bleachers)
- 301. Lions & Tigers & Bears, Oh My!**
W: 1279 Anthony Hall
T-F: Field Trip (**depart at 8:35 a.m.** both days for Potter Park Zoo, Lansing)

CAREERS

- 302. Ready for Your Future**
W-T: 403 Computer Center
F: Spartan Stadium Career Center, 290 Spartan Way, second floor interview rooms

COMMUNICATIONS

- 303. A to Z Writing**
W-F: 119 Farrall Agricultural Engineering

ENVIRONMENTAL EDUCATION

- 304. From the Lake to the Pan & Everything in Between**
W: A-328 Wells Hall
T: Field Trip (Motz Park fishing pond, St. Johns)
F: A-328 Wells Hall

OUTDOOR ADVENTURE

- 305. Canoeing Up the River With a Paddle**
W: Field Trip (Hawk Island, Ingham County Park)
T: Field Trip (Shiawassee River)
F: 208 IM Sports West

- 306. Kayaking**
W: Field Trip (Hawk Island, Ingham County Park)
T: Field Trip (Shiawassee River)
F: 208 IM Sports West

- 307. Rock Climbing & Other Adventures**
W: A-155 Plant & Soil Sciences
T: Field Trip (Planet Rock, Ann Arbor)
F: Dance tent behind Akers Hall

RECREATIONAL SPORTS

- 308. Paddle Boarding**
W-F: Field Trip (MSU Sailing Center, Lake Lansing, Haslett)

- 309. Sailing**
W-F: Field Trip (MSU Sailing Center, Lake Lansing, Haslett)

SCIENCE, ENGINEERING & TECHNOLOGY

- 310. Small Engines**
W-F: Spartan Stadium Concourse, Old Wash Bay (enter Gate M on east side & follow signs)

VISUAL ARTS & CRAFTS

- 311. Ancient Art of Quilling**
W-F: 2243 Engineering
- 312. Print My Ride**
CANCELLED

RECREATION ACTIVITIES

You must wear your name badge for these activities!

Act in 4-H Stretch & Get Energized

T: 6:30–10 p.m.

East Akers Hall Lounge

Put the fourth H of 4-H (health) into action during the making of the *4-H Stretch and Get Energized* video! Count in a foreign language, learn an exercise move, be an actor, get energized and have fun creating this future YouTube hit!
Free

Bowling @ Spartan Lanes

W: 4–7:30 p.m. & T: 6–8 p.m.

Sub-basement, Union Building

\$3 a game, \$2.12 shoe rental (NOTE: Spartan Lanes accepts credit or debit cards only, no cash.)

Broad Art Museum

T: 6–8 p.m.

The world-class Eli and Edythe Broad Art Museum provides innovative, educational, and creative art. Its interactive exhibits are designed to help visitors learn about contemporary art. 4-H Exploration Days participants are invited to a special art event – explore the museum galleries, get creative with a hands-on project, and collaborate with others in a cardboard building challenge!
Free

Dairy Store

1140 Anthony Hall

W-T Store Hours: 3:30–8 p.m.

W-T Observation Deck Hours: 3:30–5 p.m. (follow signs from Dairy Store entrance)

107 Union Building

W-T Store Hours 3:30–8 p.m.

Stop by either campus location for delicious ice cream made just for you!

You can also take a self-guided tour on the Anthony Hall observation deck with videos that show how MSU makes its own cheese and ice cream.

Ice cream \$3 to \$4.75

Tours free

D.J. Dance

T: 8:15–10:30 p.m.

Dance tent behind Akers Hall

Sound by “Tunes by T”

Free

Entertainment

W: 8–9:15 p.m.

Wharton Center for Performing Arts

Kyle Scheele: Author. Speaker. Cardboarder. Better-World-Builder.

See page 4 for details.

Free

Gardens (Explore on Your Own)

W: 4–7:30 p.m.

T: 3:30–9 p.m.

W. J. Beal Botanical Garden

(last shuttle bus at 9 p.m. Thursday)

MSU Horticulture Gardens

(home of the Michigan 4-H Children’s Garden)

Free

GooseChase Scavenger Hunt

Opens now, closes Thursday at 9 p.m.

Prizes! Fun! Compete for 4-H Exploration Days scavenger hunt glory! Use your phone (or pair up with a friend or chaperone with a phone) to compete against 4-H friends at the event and win prizes! Share photos, explore MSU, and complete challenges before time runs out. Download the free GooseChase scavenger hunt app and use game code 281WWV to join the game. Open to all 4-H Exploration Days youth participants.

Free

The Great Service Race

T: 5–8 p.m.

Dance tent behind Akers Hall, then across campus

Join 4-H AmeriCorps members in this service-themed scavenger hunt. You’ll collect items scattered across campus to assemble hygiene bags to donate to local charities and shelters.

Free

THE DEMMER CENTER AT MSU

Where the championship-caliber Spartan shooting sports teams train!

Stop in and experience all that we have to offer:

- Public shooting sports classes
- Two indoor small-bore, air rifle, and archery firearm ranges
- An outside archery park with beginner, field, and competitive ranges
- Open shoot opportunities

**Demmer Shooting Sports,
Education, and Training Center**

4830 East Jolly Road

Lansing, MI 48910

Phone: 517-884-0550

Internet: <http://demmercenter.msu.edu/>



4-H Clubs & Groups Welcome!

Horse Teaching & Research Center Guided Tour

T: Tour bus leaves Tour Loading Site at 6 p.m., returns at 7 p.m.

Actual tour time: 6:10–6:50 p.m.

Staff at the MSU Horse Teaching and Research Center have been breeding high-quality, purebred horses since MSU was founded in 1855, and the center is where most horse-related classes are taught. The 100-acre facility includes a show and training barn, a foaling barn, two quarantine barns, a breeding shed, an indoor arena and classroom complex, and a storage shed.

Free, limit 40 people

Ice Skating @ Munn Ice Arena

T: 7–9:30 p.m. (last skate shuttle pickup at 9:45 p.m.)

\$2 skate rental or bring your own; skating is free

Michigan 4-H Children's Garden

W: 4–7:30 p.m.

T: 3:30–9 p.m.

The Michigan 4-H Children's Garden is part of the MSU Horticulture Gardens. Kids and adults of all ages, from all around the world, have enjoyed the range of things to see and do in the many themed gardens at the Michigan 4-H Children's Garden.

Free

Movie Night – *Incredibles 2*

T: 8:30–10:30 p.m.

137 Akers Hall

Join us for a showing of *Incredibles 2*. A family of undercover superheroes who are trying to adjust to a quiet suburban life must spring into action once again to save the world.

Free

MSU Museum

W–T: 3:30–5 p.m.

Visit the MSU Museum, where you can explore halls devoted to animal habitat and diversity, evolution, world cultures, and Michigan Heritage. Receive a 10% discount at the MSU Museum Store by wearing your name badge.

Free

Planetarium Show

Abrams Planetarium

Chasing the Ghost Particle: From the South Pole to the Edge of the Universe

W: 6:30–7:30 p.m. (Doors open at 6 p.m., close at 6:25 p.m.)

Neutrinos are subatomic particles that are so hard to detect they're called *ghost particles*. In this show, stunning simulations of the most energetic places in our universe, and of the galaxies around us, are the prelude to a thrilling journey inside the IceCube Particle Observatory where researchers look for traces of neutrino collisions in the ice at the South Pole. From one of the remotest locations on Earth to the unexplored regions of the cosmos, this show will take you on a journey you won't forget.

Free

Explore the Sun: Sunstruck

T: 4:30–5:30 p.m. (Doors open at 4 p.m., close at 4:25 p.m.)

Travel back to the beginning of time and experience the birth of our sun. Discover its wonders and find out how the incredible energy that has supported life on earth for millennia now threatens our technology and way of life. Travel to the distant future to discover our sun's connection to the universe's cosmic cycle of life and death.

Free

Souvenir Shopping

Spartan Bookstore, 1 International Center

W-T: 3:30-6 p.m.

Turn in the entry slip on page 26 by 6 p.m. on June 20, 2019, for your chance to win a Spartan prize pack of the latest MSU clothing and swag. Need not be present to win.

Spartan Spirit Shop, Union Building

W-T: 3:30-7 p.m.

Get a 20% discount on regularly priced items by wearing your name badge. Some exclusions apply.

Sports Facilities – Indoors

IM Sports East:

W-T: 3:30-10 p.m.

- Racquetball
- Table tennis

IM Sports West:

W: 3:30-7:30 p.m. & T: 3:30-8:30 p.m.

- Basketball
- Volleyball

Check out equipment from the service counter. You must show your name badge and room key for identification.

Free

IM Sports East Exercise & Fitness Room:

W-T: 3:30-10 p.m.

Ages 16 and up only. You must already know how to use the equipment properly.

\$3 fee

Sports Facilities – Outdoors

W-T: 4-10:30 p.m.

IM East Field

- Sand volleyball courts
- Basketball courts
- Softball field

Check out equipment at residence hall desks.

Free

Star-gazing @ MSU Observatory

T: 9:30-10:30 (weather permitting; shuttle van runs 9:25-10:30 p.m.)

Come see the stars (and planets, galaxies, and nebulae . . .) through the 24-inch telescope at the MSU Observatory.

Free



2020 4-H EXPLORATION DAYS

Plan now to attend the next 4-H Exploration Days from June 24 to 26, 2020!



GENERAL INFORMATION

PLEASE READ CAREFULLY

1. Staying in a Residence Hall – As you check in at Akers, Holmes, or Hubbard Halls, you'll receive a room key and a conference card that serves as your meal card and lets you enter your housing floor stairwell and elevators. Linens will be in your room. Blankets are available in your closet or on request. Lock your room each time you leave and keep your key and conference card with you at all times.

2. Youth-Chaperone Assignments & Whereabouts Schedules – All youth participants must be assigned to a specific adult chaperone. You must attend all sessions for which you are registered, and your attendance will be monitored. During free time, you need to keep your adult chaperone informed of where you'll be, when, and with whom. All chaperones will post two "whereabouts schedules" on their residence hall room doors. One will show the chaperone's schedule. You'll use the other one to sign in and out of the recreational activities you attend without a chaperone.

You must have a chaperone with you during the Wednesday evening Wharton Center entertainment. If you choose not to attend the entertainment at Wharton Center, an adult chaperone must accompany you at your alternative activity.

3. Youth-Chaperone Meetings – In addition to the county meeting you'll have shortly after arriving at 4-H Exploration Days, you'll have five youth-chaperone meetings throughout the event. These mandatory meetings will give you a chance to check in with

your chaperone after sessions, before and after evening activities, before bedtime, and just before check-out and departure. While counties may adjust the times of the meetings slightly, the official times are:

- Wednesday and Thursday: 4:45 to 5 p.m.
- Wednesday and Thursday: 11 to 11:15 p.m.
- Friday: 11:15 to 11:30 a.m.

4. Hosts – Session and activity hosts will provide extra support and assistance as needed. You can identify the hosts by their green 4-H vests.

Note to Hosts: Pick up your information packet at one of the two 15-minute host orientation sessions at 10:45 or 11:45 a.m. on Wednesday in C-140 Akers Hall. If you absolutely can't attend one of these sessions, stop by General Headquarters in the West Akers Lounge any time before 10:30 a.m. or after 12:30 p.m. on Wednesday – before you're scheduled to serve as a host!

5. Name Badges – You must wear your lanyard and name badge at all times during the conference. Your name badge will admit you to campus activities and identify you as a participant in 4-H Exploration Days.

6. Bed Check – Your CCA (county conference assistant) will do a bed check each night. You must be in your assigned room no later than 11:15 p.m. and must sleep in your assigned room. Under no circumstances may you move without first obtaining permission from your CCA or county staff member. Blinds should be closed when lights are on in the rooms during the evening.

7. 4-H Information Centers – Each residence hall has a 4-H Information Center that is open from 7 a.m. to midnight. Each 4-H Information Center has a lost-and-found station.

- W-145 Akers Hall, phone 517-353-2237
- E-192A Holmes Hall, phone 517-432-7700
- South Engagement Center, Hubbard Hall, phone 517-884-6680

8. General Headquarters – General Headquarters is located in the West Akers Hall Lounge (phone 517-432-7611). Headquarters is staffed from 7 a.m. to midnight on Wednesday and Thursday and from 7 a.m. to 2:30 p.m. on Friday. If you need help during the night, contact the West Akers desk receptionist (phone 517-353-3358), who will connect you with the 4-H Exploration Days program director.

9. Nurse's Station – A Nurse's Station is located in apartment 131 East Akers Hall (phone 517-353-6476). The Nurse's Station is staffed at all times from 10:30 a.m. on Wednesday until 1:30 p.m. on Friday. If you get sick or are hurt, tell your CCA and county staff, then report to the nurse. If you need more care you will be taken to:

- **MSU Olin Health Center** – for those aged 14 and up only (8 a.m. to 5 p.m.).
- **Area medical facility** – The nurse, 4-H Information Centers, and General Headquarters have contact information and maps.

Victims of life-threatening situations will be taken directly to Sparrow Hospital in Lansing. Phone 911 for an ambulance, then notify your county 4-H staff, CCA or chaperone, and General Headquarters in West Akers Hall at 517-432-7611.

Emergency transportation is available from General Headquarters at all times.

You or your parents or guardian will be billed for the cost of hospital treatment.

10. Dining Halls – If you're staying in Holmes or Hubbard Halls, you'll eat in the Holmes dining hall (second floor, enter on west side). If you're staying in Akers Hall, you'll eat in the Akers dining hall (second floor, enter either side). Both dining halls are accessible to people with disabilities.

11. Sparty Convenience Stores – The convenience stores in each residence hall will be open from 11 a.m. to 10:45 p.m. on Wednesday and Thursday and from 9 a.m. to 1 p.m. on Friday. The convenience stores sell magazines, toothbrushes, and more.

12. Phone Calls – There are no land lines in the housing rooms and no pay phones in the residence halls.

13. Pizza for Evening Snacks – Cottage Inn Pizza will be stationed outside each residence hall between 9 and 10:30 p.m. on Wednesday and Thursday to sell:

- Medium pepperoni-and-cheese and cheese-only pizzas (6 slices) for \$5 each
- Garlic cheese bread (12 pieces) for \$5 each
- Orders for additional choices can also be placed with Cottage Inn Pizza at 517-324-4300. You may also call Domino's Pizza at 517-351-7100 or a different pizza vendor that offers on-campus delivery. If you don't have access to a phone, you may call in an order from the residence hall front desk phone. The standard tip for pizza delivery is \$1 a pizza. All orders must be placed by 10 p.m.

14. Check-Out Procedures and Times –

Check-out is from 6:30 to 8:15 a.m. or from 11 a.m. to 1:30 p.m. on Friday. All rooms are to be vacated by 1:30 p.m.

- Lock your door when leaving the room.
- Turn in your key and conference card to your CCA. You'll be billed \$75 for a missing key and \$10 for a missing card.
- If you need to wait for a ride, check out and wait in the lobby area of your residence hall. Residence halls will be closed and locked at 2 p.m.

15. Conduct Policy Reminder – You agreed to abide by a code of conduct when you enrolled in 4-H, and to abide by the event rules when you registered. Both the code of conduct and the event rules are available in General Headquarters. Several key points follow: Theft, vandalism, the use of alcohol and illegal drugs, and leaving the premises (except for session field trips) are not permitted. Violators will immediately be sent home at their own expense and may not be allowed to attend future 4-H Exploration Days. Those engaged in illegal activities will be turned over to the proper authorities. Repair costs for property damage will be billed to the group or individual responsible for it.



**SPARTAN
BOOKSTORE**
THE OFFICIAL MSU BOOKSTORE

SPARTAN BOOKSTORE PRIZE PACK

Register to win the latest Spartan clothing & swag!

Pick up the latest in MSU clothing & souvenirs!

Turn in this entry at the Spartan Bookstore by 6 p.m. Thursday, June 20, 2019.

Name: _____

Email: _____ Phone: (_____) _____

Need not be present to win.

Emergency Procedures

If you spot a FIRE:

1. Set off an alarm.
2. Call **911** or inform hall reception desk and report location of fire.
3. Leave building calmly and quietly. **Do not** use elevator. (Conference assistants will direct evacuation.)
4. Once you reach a safe place, notify General Headquarters at 517-432-7611.

NOTE: The silver decals on backs of housing room doors give more information on fire procedures.

If there is a TORNADO:

You will hear a steady signal of varying volume. That warning signal means **TAKE COVER NOW!**

1. Move to interior hallway with no windows or other hazards.
2. Stay under cover until “all clear” signal is given.

If you have an EMERGENCY SITUATION:

Call General Headquarters at 517-432-7611 from 7 a.m. to midnight on Wednesday and Thursday and from 7 a.m. to 2:30 p.m. on Friday. If you need help during the night, call the West Akers desk receptionist at 517-353-3358, who will connect you with the event director.

MICHIGAN STATE UNIVERSITY | Extension

Michigan 4-H Youth Development programs involve volunteers in providing positive, experiential, educational opportunities for and with youth. Our mission is to create environments, through collaboration, that build strong, healthy youth who are proactive in a complex and changing world.

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4-H YOUTH DEVELOPMENT