



EDUCATIONAL PROGRAMMING GUIDE

2020 – 2021

WE'VE GOT VIRTUAL
AND IN-PERSON PROGRAMS
DOWN TO A SCIENCE!



EVERY PROGRAM HAS A BLACK BOX
WITH A LINK TO REGISTER.

**Direct all questions to education@whitakercenter.org.*

Surgery Live!



Surgery Live!



PennState Health

HIGHMARK 

Now being offered virtually!

Upon registration, you will be asked if you plan to travel to Whitaker Center's Select Medical Digital Cinema or take advantage of this exciting program from your classroom through webinar software. Both options will provide all of the components of the Surgery Live! experience.

Whitaker Center for Science and the Arts and Penn State Milton S. Hershey Medical Center have created an innovative partnership designed to stimulate the interest of high school students in careers in healthcare.

With the support of Highmark, Surgery Live! at Whitaker Center connects students to the operating rooms of Hershey Medical Center through interactive, high-definition video conferencing technology.

A facilitator guides the students' discussion with operating room staff, demonstrates surgical instruments used in the operation, and explains factors that cause disease and contribute to conditions that place patients on the operating table. The program then transitions live to the operating room where students see and hear the surgical teams. The surgeon explains each step of the procedures and the students can ask questions during the program. No experience compares to this integrative, live program!

Regular Admission

STUDENTS & ADULTS

Ticket Price

\$25.00

CLICK HERE TO COMPLETE
THE RSVP FORM
FOR SURGERY LIVE!

**Surgical procedures subject to change.*

Please note:

- Surgery Live! is reserved for student groups and is not offered to the general public.
- Surgery Live! is only available to school groups of 10 or more.
- Due to the graphic nature of live surgery, students must be in grade 7 or above to view.
- Each Surgery Live! program is scheduled from 9:00 a.m. - 11:30 a.m. Due to the nature of live surgery, the actual session may end earlier or later than scheduled.
- If attending the program at Whitaker Center, the doors will open at 8:30 a.m. at the 3rd St Entrance. Attendance in-person is limited, and social distancing recommendations must be followed. Groups must also follow Whitaker Center's Health and Safety procedures.
- If attending the program via webinar software, you will need to be logged into the provided link by 8:50 a.m.
- Full payment is due at the time of booking. Refunds will not be issued for no-shows.
- Surgeries are subject to change based on surgeon availability.
- Please direct all questions or STEM Scholarship inquiries to education@whitakercenter.org.

CELEBRATING 13 YEARS!

**Refunds will not be issued for no-shows.*

Programs average around 2 hours.

Surgery Live! is generously supported by Penn State Health and Highmark.



This program and many others are part of the HARSCO STEM Center of Excellence.



DATES	SURGERY
Tuesday, November 10, 2020	Sleeve Gastrectomy
Thursday, November 12, 2020	Cholecystectomy
Tuesday, November 17, 2020	Sleeve Gastrectomy
Tuesday, December 1, 2020	Sleeve Gastrectomy
Wednesday, December 2, 2020	Endoscopic
Thursday, January 7, 2021	Cholecystectomy
Tuesday, January 12, 2021	Endoscopic
Thursday, January 14, 2021	Hysterectomy
Thursday, January 28, 2021	Hysterectomy
Thursday, February 4, 2021	Cholecystectomy
Tuesday, February 23, 2021	Endoscopic
Thursday, February 25, 2021	Hysterectomy
Wednesday, March 10, 2021	Sleeve Gastrectomy
Thursday, March 11, 2021	Hysterectomy
Thursday, March 18, 2021	Cholecystectomy
Tuesday, March 23, 2021	Sleeve Gastrectomy
Thursday, April 1, 2021	Cholecystectomy
Thursday, April 22, 2021	Hysterectomy
Thursday, April 29, 2021	Cholecystectomy
Thursday, July 1, 2021	Hysterectomy
Thursday, July 29, 2021	Cholecystectomy

Tuesday

Wednesday

Thursday



Whitaker Center is excited to offer **NEW!** Whitaker Without Walls (WWW) programs for school groups in **grades K-6.**

Virtual Field Trips include a **STEM Activity Lesson**, a **Documentary**, or **Both!**

STEM Activity lesson topics include **Engineering**, **Chemistry**, and **Environmental Science.**

VIRTUAL FIELD TRIP PRICING BELOW!

Choose from a *STEM Activity*, a *Documentary*, or the *Two Event Package!*

**CLICK HERE TO COMPLETE
THE RSVP FORM FOR
VIRTUAL FIELD TRIPS.**

One Event: STEM Activity

Regular: \$200 per classroom of 30 students

STEM Scholarship: \$180 per classroom of 30 students

Whitaker Center will provide:

- AN EDUCATOR-LEAD 45-50 INTERACTIVE PROGRAM THROUGH VIDEO CONFERENCING SOFTWARE.
- A KIT WITH MATERIALS FOR EXPERIMENTS AND ACTIVITIES FOR 30 STUDENTS.
- TEACHER'S GUIDE TO PREPARE, YOU, YOUR CLASSROOM, AND STUDENTS FOR THE PROGRAM.

One Event: Documentary

Regular: \$100 per classroom of 30 students

STEM Scholarship: \$60 per classroom of 30 students

One of the following documentaries can be streamed into the classroom to be viewed

- SELECT FROM INTO AMERICA'S WILD, EXPEDITION CHESAPEAKE, GREAT BEAR RAINFOREST, GREAT BARRIER REEF, DREAM BIG, NATIONAL PARKS ADVENTURE, AND GRAND CANYON ADVENTURE.
- DOCUMENTARIES ARE APPROXIMATELY 45 MINUTES IN LENGTH.

Two Event: STEM Activity AND Documentary

Regular: \$300 per classroom of 30 students

STEM Scholarship: \$240 per classroom of 30 students

***Please reference the information in both boxes above. A Two Event package includes everything in the STEM Activity and Documentary packages.**

STEM Scholarship |

We want to make a trip to Whitaker Center a reality for underserved schools. Thanks to the generosity of our donors, STEM Scholarships can help cover a large portion of program fees for your school group. ***This is a first-come, first-serve opportunity. Please contact education@whitakercenter.org for more information.***

Many thanks to the following STEM Scholarship donors:

The Donald B. and Dorothy L. Stabler Foundation, The Brody Science Fund for Youth, The Carol L. Mickelson Fund of the Foundation for Enhancing Communities, and The Joan S. and Joseph K. Goldsmith Fund.

2020–21 Whitaker Without Walls Field Trips

STEM Activity lesson topics include Engineering, Chemistry, and Environmental Science.

See a full list of STEM Activity lesson topics on page 7-8!
Virtual Documentaries available are on page 9.

Please note:

- Up to 30 students in each classroom. Whitaker Center's education staff will use Interactive Software to present STEM programs live in your classroom.
- Programs can begin at 9:00 a.m. EST and will take place one hour apart.
- Up to 5 sessions can be scheduled in one day.
- The education staff will work with the lead educator to set up times and process for the day.
- Programs must be scheduled at least 3 weeks prior to the program to allow for technology checks and kits to be obtained.
- To begin the booking process, please fill out the RSVP form (view link in the black box on page 6) and a member of the education team will be in touch to plan your sessions.
- You will need access to:

A webcam, audio, internet, and a form of projection will be necessary for students to interact with the educator. To ensure connectivity, a test will be done one week prior to your scheduled virtual trip.

This program and many others are part of the HARSCO STEM Center of Excellence.

HARSCO
STEM
Center of Excellence

Grade Level	Engineering All trips are connected to NGSS science standards and use the Engineering Design Cycle to bring engineering content and hands-on learning to your children.	Chemistry All virtual trips are connected to NGSS science standards and use Science Process Skills to bring chemistry content to life through hands-on learning.	Environmental Science All trips are connected to NGSS science standards and use Science Process Skills to bring biology, ecology, geology, and meteorology content coupled with hands-on learning to your students.
Kindergarten	Knock it Down! Kindergartners will explore the forces of physics while using wrecking balls to knock down blocks and other classroom objects. We will focus on the Engineering Design Cycle and tap the power of play to give our youngest engineers the tools they need to figure out tough challenges.	Ooey Goopy Slime Kindergartners love stretchy, sticky, ooey, goopy slime! We will do chemistry together as we mix liquids to make our very own slime. We will experiment with the slime and learn about its properties through hands-on exploration.	Build an Animal Home Kindergartners will explore the four essential elements of animal habitats, then design and build a structure cozy enough for a creature to (hopefully!) call home.
First Grade	Brilliant Bridges First graders will examine structure and form as they work with a partner to design a bridge. We find out what shapes are strong and use the Engineering Design Cycle to become bridge building civil engineers!	What State is It? We'll explore solids, liquids, and gases and find out what makes them different on a molecular level through fun activities and experiments. First graders will think like material scientists as they find out what happens when things change from one state to another.	Amazing Adaptations First graders will discover how adaptations help animals survive in many different habitats. They will work to design a newly discovered creature to live in a habitat of their choosing.
Second Grade	Shake it Up Second graders will become disaster management specialists as they design a building that can withstand an earthquake. We will focus on using teamwork to solve big problems and keep our building standing.	Bubble Chemists What does it take to make the best bubble ever? Is it their shape, their buoyancy, their size, or...something else? Second graders will explore the properties of bubbles and answer these questions by mixing their own bubble solutions and then comparing their results.	Seed Dispersal Second graders will think like botanists as they observe seeds that are dispersed by wind. Then they will engineer their own seed that can be carried by wind, but is adapted to the needs of a specific plant.

Third Grade	Zipline Speedsters Third graders will focus on materials use while designing the fastest speedster on the zipline. The Engineering Design Cycle and help from their team will speed them through the challenge.	The Basics of Acids and Bases: Acids and bases are everywhere, and chemists have devised some pretty clever ways to tell the difference between the two. Third graders will think like chemists as they create color changes and reveal secret messages using acids and bases!	Fossil Mayhem Fossils are a glimpse into our planet's past, but what do they tell us about the plants and animals that lived long ago? Third grade students will study bones like paleontologists and follow a fossil's journey from formation millions of years ago to today's museum display cases.
Fourth Grade	Crazy Crashers Fourth graders vehicle testing engineers will design an innovative car to keep a passenger safe in a collision. We will need our creativity and the Engineering Design Cycle to help us succeed.	Warm it Up & Cool it Down: Chemists create new substances, but their reactions can also generate or absorb heat energy! Fourth graders will create their own exothermic and endothermic reactions and measure the energy exchanged.	Fabulous Feet Fourth graders will explore the world of comparative biologists while learning about the diversity of mammal feet! We'll observe paws, hooves, wings, and fins closely and then make inferences about the habitat and behavior of animals from what they have at the end of their limbs.
Fifth Grade	Mission to Mars Fifth grade aerospace engineers will think through some tricky challenges to design a lander for a Mars rover. They will use the Engineering Design Cycle to think about simple materials in a new way.	Don't Break the Tension: Can insects walk on water? Can you really make a paper clip float? The answers are in the water molecules! Fifth graders will take a closer look at the chemistry of water to discover the power of surface tension.	Be a Citizen Scientist! Scientists need our help! Fifth graders will discover what it takes to be a citizen scientist and how the data they collect can be used to learn more about the world around us.
Sixth Grade	Under Pressure Sixth grade engineers will design a pneumatic machine to lift a load. We will learn about air pressure and then use what we learn to design an ingenious machine.	Reaction Action! Reactions happen all around us, from the chemistry lab to the kitchen. They can take many different forms, but the two main kinds are physical reactions or chemical reactions. Sixth graders will discover the differences between chemical and physical reactions through a series of intriguing, hands-on experiments.	Hurricane Task Force Sixth graders will step into the shoes of meteorologists as they track, plot, and assess the strength of hurricanes. They will have some big decisions to make as they allocate resources to mitigate the effects of these natural hazards.

PLAY A DOCUMENTARY VIRTUALLY!



Select a documentary! One of the following documentaries can be streamed into the classroom to be viewed.

Expedition Chesapeake

Now Virtual! Running time: 45 minutes

The film displays the incredible diversity found in the watershed with thousands of rivers and streams that feed the Chesapeake Bay with billions of gallons of fresh water each day. Water is a constant element in the film as it is the sustaining force for all forms of life in the watershed as well as the bay.

NEW!

Into America's Wild

Now Virtual! Running time: 40 minutes

Into America's Wild serves as an inspiration for conversations about how students and families can enjoy and benefit from a greater connection to nature at a time when students are suffering from too much screen time.

Great Bear Rainforest

Now Virtual! Running time: 45 minutes

Come on a remarkable journey to one of the planet's most spectacular lush temperate rainforests in British Columbia, where the fabled all-white Spirit Bear holds almost mythic status among the region's indigenous people.

Great Barrier Reef

Now Virtual! Running time: 40 minutes

Every year, millions travel to see one of the seven wonders of the natural world: the Great Barrier Reef. Learn how this living treasure trove of biodiversity has endured for thousands of years and will continue to do so far into the future.

Dream Big: Engineering Our World

Now Virtual! Running time: 40 minutes

Around the world, engineers are pushing the limits of ingenuity and innovation in unexpected and imaginative ways. Take a journey of discovery and witness how today's engineers are shaping the world of tomorrow.

Grand Canyon Adventure

Now Virtual! Running time: 45 minutes

Grand Canyon Adventure: River at Risk 3D follows the great Colorado River as it reveals the most pressing environmental story of our time - the world's growing shortage of fresh water. Join environmental advocates as they travel deep into the Grand Canyon and down the river that runs through it.

National Parks Adventure

Now Virtual! Running time: 43 minutes

National Parks Adventure takes audiences on the ultimate off-trail adventure into the nation's awe-inspiring great outdoors and untamed wilderness.

FIELD TRIPS TO WHITAKER CENTER

This program and many others are part of the HARSCO STEM Center of Excellence.

HARSCO
STEM
Center of Excellence

For a one event field trip, schools have the option of visiting the Harsco Science Center or the Select Medical Digital Cinema to view a documentary. If the Science Center option is chosen, students can explore the Science Center and visit all of the hands-on science exhibits. Also, they can take part in activities in the STEM Design Studios. Adults and their students will meet a STEM Educator at the classroom doors and be introduced to the day's inquiry-based challenge. Small groups will have time to design, test, and refine their projects to fulfill the posed requirements. These engaging activities will allow students to explore important problem-solving strategies while gaining an appreciation and love of STEM.

If taking part in a one-event documentary experience, your class will experience an educational film in a completely immersive, large-format movie theater. You will have the choice of one of the following 40-45 minute documentaries. Groups can have the best of both offerings by opting into the 2 Event package of the Science Center experience and a documentary.

Films available for in-person Field Trips.

Expedition Chesapeake 2D

Dream Big 3D

Forces of Nature 2D

Into America's Wild 3D ***NEW**

Tiny Giants 3D

Journey to Space 3D

Great Bear Rainforest 3D

Flight of the Butterflies 3D

Lewis and Clark 2D

Great Barrier Reef 3D

National Parks Adventure 3D

Grand Canyon Adventure 3D

Tornado Alley 3D

FIELD TRIP PRICING BELOW!

Choose from a *STEM Activity*, a *Documentary*, or the *Two Event Package!*

CLICK HERE TO COMPLETE THE IN-PERSON FIELD TRIP RSVP FORM.

Student Pricing	1 Event - STEM Activity	1 Event - Documentary	2 Events
Regular	\$10	\$8	\$14
STEM Scholarship	\$2	\$2	\$4
Student Pricing - Early Bird	1 Event - STEM Activity	1 Event - Documentary	2 Events
Regular	\$9	\$8	\$13
STEM Scholarship	\$2	\$2	\$4

Early Bird Pricing |

To receive Early Bird pricing, the Trip RSVP form must be submitted online by December 15, 2020.

Adult Policy |

Groups will receive (1) complimentary chaperone admission with every 10 tickets purchased. To qualify for complimentary chaperone admission, a minimum of ten (10) admission tickets must be purchased. Each additional adult beyond this ratio will be \$10. This policy will apply to regular and early bird pricing, as well as those receiving STEM Scholarships.

WHITAKER CENTER HEALTH & SAFETY

READ HERE

Due to the ever-changing times regarding COVID-19, we will work with each group to develop a field trip that meets the needs of the school, Whitaker Center, and the most current CDC guidelines. Attendance for in-person field trips is limited, and social distancing recommendations must be followed. Groups must also follow Whitaker Center's Health and Safety procedures.

BIRTHDAY PARTIES

Birthday Parties are **BACK** at Whitaker Center with more options and tons of fun!

You can pick the package for your 4-12 year old that makes their day extra special!

Base Package Options Additional Guests

A - \$200: 1-hour party room, Science Center

B - \$200: 1-hour party room, Lab Activity

C - \$200: 1-hour party room, Documentary in Digital Cinema

D - \$300: 1-hour party room, Science Center and Documentary

E - \$300: 1-hour party room, Science Center and Lab Activity

F - \$300: 1-hour party room, Documentary and Lab Activity

G - \$400: 1-hour party room, Science Center, Documentary, and Lab Activity

**The base price is listed above and covers the first 20 individuals (parents and children combined).*

There is an additional fee for individuals over this count.

CHOOSE YOUR LAB ACTIVITY!

Visit <https://www.whitakercenter.org/birthday-parties> for full details.

Let's be a Paleontologist Age: 4-8

Ice Cream Science Age: 4-12

Roller Coasters Age: 8-12

CLICK HERE TO COMPLETE THE BIRTHDAY PARTY RSVP FORM.

Birthday Parties



W.O.W. VAN PROGRAM

WHITAKER ON WHEELS

CLICK HERE TO COMPLETE THE W.O.W. VAN RSVP FORM.

Program Length	AGE RANGE	# OF PARTICIPANTS	PRICING	BRINGING STEAM DIRECTLY TO YOU IN THE WHITAKER ON WHEELS VAN!
60 MINUTES	AGE 3+	LESS THAN 50	\$250	
30 MINUTES	INFANT - AGE 2	LESS THAN 50	\$50	

Our Whitaker On Wheels program, commonly referred to as W.O.W., offers preschools, daycare centers, and elementary schools the opportunity to bring interactive STEAM (Science, Technology, Engineering, Arts, and Math) stations directly to the children they look after and teach.

PROGRAMMING

Programming is divided into three age groups.

Ages 0-2

Ages 3-5

Ages 6-8

*The infant to age 2 (30-minute) program must be booked in conjunction with one of the 3+ (60-minute) programs. It is not offered separately. Any program over 50 children and/or over 60 miles from Whitaker Center will incur additional charges.



Scheduling

To schedule W.O.W. programming for your preschool or daycare center, please complete the W.O.W. Reservation Form in the black box above.

W.O.W. programming availability goes fast. Reserve your date today!

This program and many others are part of the



BRINGING SCIENCE TO YOU IN THE W.O.W. VAN!

Visit <https://www.whitakercenter.org/whitaker-on-wheels> for full details.

*Kids do not ride in the van. The van is stationary.



For a complete list of program details, operating information, and further assistance in planning your visit, please visit whitakercenter.org.



222 Market Street
Harrisburg, PA 17101
whitakercenter.org