



academic workshops

For the price of a bus, we come to you! Architecture Explorations brings Academic Workshops to your school and provides all materials and supplies. If you prefer, you can have your workshop on the Carnegie Mellon campus. Workshops can be scheduled any day of the week, depending on availability, for 10 to 20 students. Our Academic Workshops are designed to align with your curriculum. We address educational standards while engaging students in exciting architectural design projects. Choose from our existing offerings or have a workshop customized to integrate with your lessons.

Workshops are scheduled for a single two-hour session but can be adapted to meet your needs. Do you have more than one class? Multiple sessions of the same workshop or a selection of workshops can be scheduled at a discounted price. Are the students doing a larger project? Architecture Explorations can create a custom workshop series based on your curricular focus.

cmu.edu/architecture/academics/outreach

classes

be a building

recommended for grades k-3

PA standards: 2.9, 9.1

In this fun introduction to architecture, students will create a building-inspired costume. An introduction to architectural vocabulary inspires students to design buildings adorned with unique details. Students will sketch their design ideas before constructing their buildings. The workshop culminates with a building parade around the classroom.

skyscrapers

recommended for grades k-5

PA standards: 2.9, 3.4

How do skyscrapers stand up? Learn about trusses and triangles and use your knowledge to build a structural frame out of newspaper. Take a look at famous skyscrapers and design a building façade for your structure.

domes and polyhedrons

recommended for grades 3-5

pa standard: 2.9

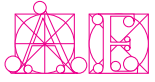
Learn about domes across the world! From igloos to cathedrals, this amazing shape has many uses. How do the polygons in a geodesic dome compare to the polygons in a stone dome? Using their geometry knowledge, students will transform polygons and polyhedrons into domed architectural masterpieces.

building sites

recommended for grades 5-8

PA standards: 7.1, 7.2

Location! Location! Location! How does it influence architecture? Learn how different places change the way architects design buildings. Architects must consider many qualities of a site as they design. This workshop focuses on environmental factors that influence architecture including climate, sun angles, and topography. Students will design a building that reflects constraints imposed by a site.



architecture explorations academic workshops

time warp

recommended for grades 5-7

PA standard: 8.4

Zoom back in time to discover architectural details from the ancient world! Explore how and why these historical details are used in today's buildings. Design a building with new architectural details that are inspired by history, then bring your design to life by creating a model. How do the details in your project compare to the details used in ancient architecture?

scale and string

recommended for grades 6-10

PA standard: 3.1(d)

How do architects, contractors, and carpenters work together? They communicate with scaled drawings. Scale is essential to the design and construction of buildings. Jump into the drawings as you measure with string, then graph out a floor plan. The end result is a scale drawings of a building they design.

designed by architects

recommended for grades 8-12

PA standard: 9.3

Many architects design more than just buildings. Frank Lloyd Wright designed furniture and stained glass windows. Michael Graves designs household objects used in buildings designed by other architects. Students will be presented with images of buildings and products designed by architects, initiating a discussion about similarities in design between buildings and products. Students will then use a designer as inspiration to design a building of their own.

custom workshops

grades k-12

Architecture Explorations will create a custom workshop based on the topics your students are studying. Past Architecture Explorations workshops have included a customized series for math students at the Pittsburgh Gifted Center. The workshops addressed the district's mathematics standards by enabling the students to design a polar bear exhibit for the Pittsburgh Zoo and Aquarium which they had visited on a field trip. Over the course of 6 sessions, students created scale drawings and models and wrote essays about their projects. Allow us to create a program that will suit the needs of your students - and your lesson plan!

registration

schedule & fees

Workshop sessions can be scheduled anytime from September to May and are open to students in grades K-12.

1 session per day	cost/session	total cost
1 session in 1 day	\$150	\$150
2 sessions over 2 days	\$140	\$280
3 sessions over 3 days	\$135	\$405
4 sessions over 4 days	\$130	\$520
5 sessions over 5 days	\$125	\$625
2 sessions per day	cost/session	total cost
2 sessions in 1 day	\$125	\$250
4 sessions over 2 days	\$120	\$480
6 sessions over 3 days	\$115	\$690
8 sessions over 4 days	\$110	\$880
10 sessions over 5 days	\$100	\$1000

Fees are discounted by 10% if more than half of a school's student body is eligible for the National School Lunch Program's free or reduced fare lunch. Milage is charged for destinations outside of Allegheny County. If travel time from Carnegie Mellon University exceeds two hours, please contact Architectural Explorations about additional fees.

registration instructions

Please schedule Academic Workshops at least one month in advance. For custom workshops, allow at least eight weeks for us to plan a unique experience for your students. A confirmation packet with an invoice will be mailed when you schedule your workshop. Payment must be received in full two weeks before your workshop begins. Cancellations due to weather or other circumstances will be rescheduled. No refunds are given once payment is received.

contact

If you have any questions, please contact Architecture Explorations Program Director, Kelly Lyons, at kellyons@cmu.edu or 412 268 1541.

