



PITTSBURGH

EMHS architectural design
e-term 2009



EMHS architectural design e-term 2009

Projects: The goal of each project/activity is to engage and internalize the observations each student will make within a fun, creative and individually challenging context.

Digital Photo Journal: Close-up photos of architectural design elements placed into a slideshow w/ brief descriptions design significance.

Sketchup 3-D Model: Use of Sketchup Software to design additional facilities needed on the EMS campus.

Bingo Cards: Discovery of architectural principles during the course of tours.

Sketch Books: Opportunity to practice and hone 3-D drawing by illustrating observed structures and designs.

Trip Activities

Frank Lloyd Wright's Falling Water Residence Tour

Pittsburgh Convention Center Tour

Pittsburgh Walking Tour

Heinz Field Tour

PNC Park Tour

Pittsburgh Pirates Baseball Game

Community Service – Laurelville or Inner City Project

Carnegie Mellon University Tour

PPG Place Tour

Pittsburgh Cog Railway or Skyline Viewpoint

Union Penn Station Tour

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Schedule at a Glance

Date	Activity
April 19, 2009	Orientation and software training
April 20, 2009	Travel to Laurelville Camp and Tour Falling Water
April 21, 2009	Tour Pittsburgh Convention Center, Pittsburgh walking tour, Heinz Field Tour Pittsburgh Pirates Baseball game
April 22, 2009	Community Service Day
April 23, 2009	Carnegie Mellon University Tour, PPG Place Tour, Cog Rail or Skyline Viewpoint
April 24, 2009	Union Penn Station Tour, Student Project Presentations, Return to EMHS



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day one

date

April 19, 2009

time

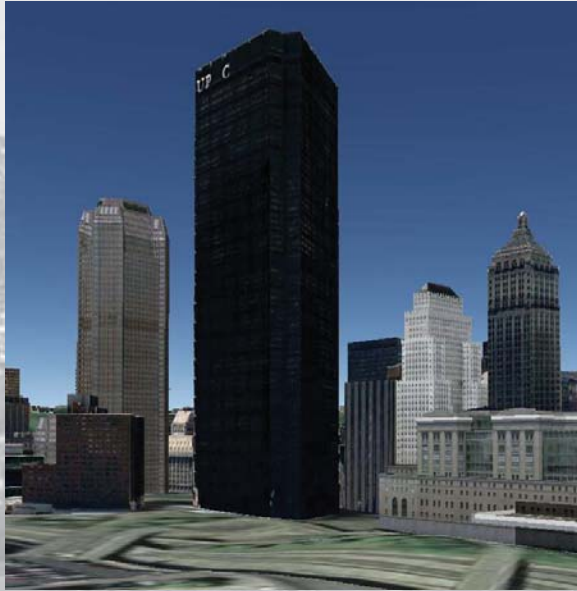
1:00 pm - 2:00 pm

activity

orientation and software loading

2:00 pm - 4:00 pm

software training



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day two

date	time	activity
April 20, 2009	6:00 am	Depart EMHS
	10:00 am - 12:00 pm	Arrive Laurelville - set up base camp, eat lunch
	12:00 pm	Depart for Fallingwater
	12:30 pm - 4:30 pm	Fallingwater Tour
	4:30 pm	Depart for Laurelville Camp
	5:00 pm - 6:30 pm	Supper
	6:30 pm - 9:30 pm	Project Selection & work

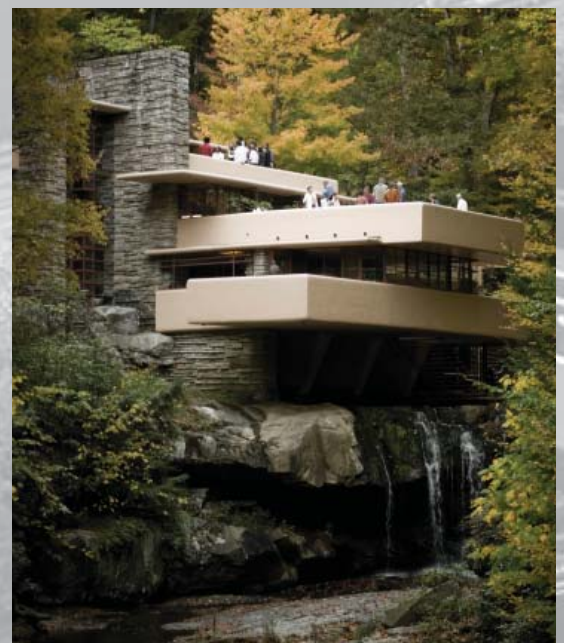
Frank Lloyd Wright's Fallingwater - Guided tour w/ opportunities to sketch and photograph objectives:

To learn the design elements that make this a signature design for Frank Lloyd Wright

To learn the structural complexity associated with cantilever designs

To practice 3-D sketching

To begin a digital journal of architecture



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day three

date	time	activity
April 21, 2009	7:00 am	Breakfast
	7:45 am	Depart for Pittsburgh
	9:00 am - 1:00 pm	Pittsburgh Convention Center Tour sketching, digital photo journal, architectural bingo Lunch
	1:00 pm - 5:00 pm	Pittsburgh Architectural Walking Tour Bridges Heinz Field Tour
	5:00 pm - 6:00 pm	Supper in Pittsburgh
	6:00 pm - 10:00 pm	Pirates Baseball Game
	10:00 pm	Depart for Laurelville Camp

Pittsburgh Convention Center - Guided Architectural Tour w/ opportunities to sketch, photograph

objectives:

To learn about LEED design

To observe people flow principles & elements of large commercial construction

To understand the importance of aesthetic design within city development

Pittsburgh Walking Tour - Guided Architectural Tour - optional: Student activity to create an architectural digital scavenger hunt based on GPS coordinates.

objectives:

To discover interesting architecture and design features

To learn how to use a GPS for marking waypoints

To collect digital photographs for design project

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day three

Heinz Field - Guided Architectural Tour w/ opportunities to sketch, photograph

objectives:

To learn about design criteria for stadiums, people flow, safety, acoustics, visibility, protection from weather, multiple use, growing of turf

To provide an opportunity to see areas where professional athletes work and train

PNC Park & Pittsburgh Pirates Baseball Game

objectives:

To enjoy an athletic event within a stadium structure, gaining new appreciation for the complexity of thought and construction required to accommodate large groups of people



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day four

date	time	activity
April 22, 2009	7:00 am	Breakfast
	8:00 am - 3:00 pm	Laurelville Camp Community Service or Inner City Project work in Pittsburgh
	3:00 pm - 5:00 pm	Project Work
	5:00 pm - 6:00 pm	Pizza Supper
	6:00 pm - 8:00 pm	Project Work

Community Service -- Laurelville or Inner City Project

Objectives:

To learn the levels of intentional design and aspects of design by default at a small Christian camp

To help others through offering services of labor to ready the camp for their summer programs

or

To learn about issues associated with urban living and the challenges many experience due to limited resources

To help others with gifts of labor & service

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day five

date	time	activity
April 23, 2009	7:00 am	Breakfast
	7:45 am	Depart for Pittsburgh
	9:00 am - 2:30 pm	Carnegie Mellon University architectural tour Tour of the School of Architecture Interview Architecture Students Lunch Project Work
	2:30 pm - 4:30 pm	PPG Place Complex Tour
	4:30 pm - 6:30 pm	Supper in Pittsburgh
	6:30 pm - 8:30 pm	Ride the Pittsburgh Cog Rail or Visit Skyline Viewpoint
	8:30 pm	Depart for Lauralville

Carnegie Mellon University Architectural Tour

objectives:

To learn about and observe master planning concepts for a university

to observe marquee buildings on a major campus

To observe design elements in an urban campus with restricted amounts of land

To learn about formal programs of architecture

To interview and observe the work of architectural students to discern whether this type of program is of personal interest

PPG Place Architectural Tour

objectives

To experience "close-up and personal" the exterior and interior of a city skyscraper

To learn from the designing architects the thought & collaborative process for designing corporate structures

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day five

Pittsburgh Cog Railway or Skyline Viewpoint

objective:

To provide opportunity to view the skyline of Pittsburgh & macro-urban design elements

To offer opportunity for sketch book journal



EMHS architectural design e-term 2009 day six

date	time	activity
April 24, 2009	7:00 am - 10:00 am	Breakfast, Clean up, Project Completion
	10:00 am	Depart for Pittsburgh
	11:00 am - 2:00 pm	Union Penn Station Tour Tour Architectural Office Student Project Presentations to architects
	2:00 pm	Depart for EMHS

Union Penn Station Architectural Tour

Objectives:

To observe a professional architectural firm to learn about the variety of employment opportunities within the profession

To learn about the variety of design projects worked on within a large firm

To present student projects and learn professional perspective on student work

