

Date	Locations & Descriptions
Thursday, September 14 6:00 pm – 7:00 pm Mentors Optional	<ul> <li>Student Open House – The Pike Company, 1 Circle Street, Rochester, NY 14607</li> <li>Overview of program and expectations</li> <li>Parents welcome to attend</li> </ul>
Thursday, September 21	Student application deadline (www.acementor.org)
Thursday, September 28	Notification sent to all applicants via email with syllabus
Thursday, October 12 4:30 pm - 6:30 pm	Introduction & Scavenger Hunt – LeChase Construction, 205 Indigo Creek Dr, Rochester, NY 14626
	<ul> <li>Introduction to the ACE Mentor Program         <ul> <li>Expectations &amp; syllabus review</li> <li>Meet the mentors</li> <li>Architectural scavenger hunt</li> <li>Collect shirt and shoe size (steel toe boots will be provided to all students)</li> </ul> </li> </ul>
	Assignment: Get permission form signed.
Thursday, October 19 4:30 pm - 6:30 pm	<b>Understanding Construction Drawings</b> – Bergmann, 280 E Broad St #200, Rochester, NY 14604
	<ul> <li>Review a set of construction documents. Locate symbols, find dimensions, determine square footages &amp; materials, etc.         <ul> <li>Floor Plans, elevations, sections</li> <li>Available tools to create construction drawings</li> </ul> </li> <li>Playhouse project assigned</li> </ul>
	Assignment: Brainstorm a theme/concept for your playhouse. Bring inspiration images next class.
Thursday, October 26 4:30 pm – 6:30 pm	Working Class – Playhouse Design – LaBella Associates, 300 State St #201, Rochester, NY 14614
	<ul><li>Meet your group!</li><li>Look at all concept ideas and determine one to move forward with</li></ul>
	Assignment: Decide who will work on what parts of the playhouse design. Begin sketching how your concept can translate into design features in plan, section, elevation, or 3D.



Saturday, October 28 8:00 am – 12:00 pm Mentors Optional	<b>Concrete Footing Competition -</b> Pike Company Warehouse, 936 East Main Street, Rochester, NY 14605
Mentors Optional	DRESS WARM – EVERYONE MUST WEAR THEIR WOOK BOOTS
	<ol> <li>Four Companies/student groups will be competing:         <ul> <li>a. The Pike Company</li> <li>b. LeChase</li> <li>c. Manning Squires Hennig</li> <li>d. Ironwood</li> </ul> </li> </ol>
Thursday, November 2 4:30 pm – 6:30 pm	<ul> <li>Structural Engineering – Bergmann, 280 E Broad St #200, Rochester, NY 14604</li> <li>Presentation &amp; hands-on building contest</li> </ul>
Saturday, November 4 11:00 am – 12:15 pm <u>Mentors Optional</u>	R. I. T. Tour - 2140 Bausch & Lomb Center, 60 Lomb Memorial Drive
Thursday, November 9 4:30 pm – 6:30 pm	Bid Day Experience - LeChase Construction, 205 Indigo Creek Dr, Rochester, NY 14626
	Simulate the bidding process:
	1. Review drawings for a hypothetical project
	<ol> <li>Contact contractors and get quotes</li> <li>Determine total estimated project cost based on qualified low bidders</li> </ol>
Tuesday, November 14	ACE Alumni Panel Discussion - The Pike Company, 1 Circle Street, Rochester, NY 14607
4:30-5:30 Optional for Mentors & Students	1. Hear from past ACE students & get pointers for the future
Saturday, November 18	Field Trip to the UR Laser Lab – 250 E River Rd, Rochester, NY 14623
9:00 am – 11:30 am Mentors Optional	1. Job Site Tour
	EVERYONE MUST WEAR WORK BOOTS
Thursday, November 23	NO CLASS FOR THANKSGIVING HOLIDAY
Thursday, November 30 4:30 pm – 6:30 pm	<ul> <li>Playhouse Working Class - LaBella Associates, 300 State St #201, Rochester, NY 14614</li> <li>1. Bring all work to date (sketches, laptops, anything to be productive)</li> <li>2. Present playhouse drawings to the group</li> <li>3. Utilize time with Mentors to make sure dimensions are correct &amp; materials are labeled.</li> </ul>
	Assignment: Produce scaled playhouse drawings
Thursday, December 7 4:30 pm – 6:30 pm	<ol> <li>Intro to Design Software / Working Class – TBD</li> <li>1. Introduction to SketchUp &amp; Revit</li> <li>2. Work in groups to continue developing playhouse drawings</li> <li>Assignment: Produce scaled playhouse drawings</li> </ol>
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Thursday, December 14 4:30 pm - 6:30 pm	<ul> <li>Playhouse Working Class – Finish Playhouse Design - LaBella Associates, 300 State St #201, Rochester, NY 14614</li> <li>Bring all work to date (sketches, laptops, anything to be productive)</li> <li>Present playhouse drawings to the group</li> <li>Utilize time with Mentors to make sure dimensions are correct &amp; materials are labeled.</li> <li>Playhouse drawings DUE at end of class!</li> </ul>
Saturday, December 16 8:00 am – 12:00 Mentors Optional	Heating & Sheet Metal Class – Local Union #46, 244 Paul Road, Rochester, New York 14624 WORK BOOTS ARE REQUIRED
	This is a working class in sheet metal duct work
Thursday, December 21 4:30 pm – 6:30 pm	<ul> <li>Civil Engineering – Bergmann, 280 E Broad St #200, Rochester, NY 14604</li> <li>1. Overview of civil engineering types</li> <li>2. Specific project examples and job expectations</li> <li>3. Hands on activities including pipeline design and stormwater modeling</li> </ul>
Thursday, December 28	NO CLASS – CHRISTMAS HOLIDAY
Thursday, January 4 4:30 pm – 7:30 pm	<ul> <li>Playhouse Construction Day 1 – Build Day - ITEC Training and Education Center, 105 McLaughlin Rd., Rochester, New York 14615</li> <li>WORK BOOTS ARE REQUIRED. Wear clothes that can get dirty/painted.</li> </ul>
Thursday, January 11 4:30 pm – 7:30 pm	<ul> <li>Playhouse Construction Day 2 –Build Day – ITEC Training and Education Center, 105</li> <li>McLaughlin Rd., Rochester, New York 14615</li> <li>WORK BOOTS ARE REQUIRED. Wear clothes that can get dirty/painted.</li> </ul>
Saturday, January 13 8:00 am – 12:00 pm Mentors Optional	METAL STUD FRAMING COMPETITION - Carpenters Union Hall Training Facility, 21 Jetview Drive, Rochester, NY 14624) WORK BOOTS ARE REQUIRED
Thursday, January 18 4:30 pm – 7:30 pm	<ul> <li>Playhouse Construction Day 3 – Build Day – ITEC Training and Education Center, 105 McLaughlin Rd., Rochester, New York 14615</li> <li>WORK BOOTS ARE REQUIRED. Wear clothes that can get dirty/painted.</li> </ul>



Saturday, January 20 8:00 am – 12:00 pm	<b>Electrical Construction</b> – Worldwide Electric Corporation, 3540 Winton Place, Rochester, NY 14623
Mentors Optional	WORK BOOTS ARE REQUIRED
	<ol> <li>Learn how to bend electrical conduit</li> <li>Learn how to wire a switch and light fixture</li> <li>Learn how to wire an electrical outlet</li> </ol>
Thursday, January 25 4:30 pm – 7:30 pm	<b>Playhouse Construction Day 4 – Build Day –</b> ITEC Training and Education Center, 105 McLaughlin Rd., Rochester, New York 14615
	<b>WORK BOOTS ARE REQUIRED.</b> Wear clothes that can get dirty/painted.
Thursday, February 1 4:30 pm – 6:30 pm	<b>Working Class for House Design</b> – LaBella Associates, 300 State St #201, Rochester, NY 14614
	<ol> <li>House project assigned</li> <li>Begin discussions of site, client, and how your house will relate to your playhouse</li> </ol>
	Assignment: Choose site for house design and continue developing floor plans. Draw site diagrams showing how the house is situated on the site.
Thursday, February 15 4:30 pm – 6:30 pm	<b>Working Class for House Design</b> – LaBella Associates, 300 State St #201, Rochester, NY 14614
	<ol> <li>Bring all work to date (sketches, laptops, anything to be productive)</li> <li>Present house designs to the group / receive feedback</li> </ol>
	<ol> <li>Work with mentors on 3D model, plans, sections, elevations, etc.</li> </ol>
	Assignment: Continue to develop design and drawings
Thursday, February 22	NO CLASS – PRESIDENT'S WEEK VACATION
Thursday, February 29 4:30 pm – 6:30 pm	<b>LEGO Project Management Game – House Design Working Class -</b> The Pike Company, 1 Circle Street, Rochester, NY 14607
	<ol> <li>Bring all work to date (sketches, laptops, anything to be productive)</li> <li>Work with mentors on 3D model, plans, sections, elevations, etc.</li> </ol>
	Assignment: Continue to develop house drawings
Thursday, March 7 4:30 pm – 6:30 pm	Working Class – LaBella Associates, 300 State St #201, Rochester, NY 14614
4.50 pm – 0.50 pm	1. Bring all work to date (sketches, laptops, anything to be productive)
	<ol> <li>Present house designs to the group / receive feedback</li> <li>Work with mentors on 3D model, plans, sections, elevations, etc.</li> </ol>
	1. Assignment – Finalize all drawings, materials, and presentation boards.
Saturday, March 9	Masonry Training – Local #3, 33 Saginaw Dr, Rochester, NY 14623
8:00 am – 12:00 pm Mentors Optional	WORK BOOTS ARE REQUIRED



Thursday, March 14	Presentation Skills – Builder's Exchange, 180 Linden Oaks # 100, Rochester, NY 14625
4:30 pm – 6:30 pm	1. Dry run of presentations with critique
	Assignment: Make note cards (optional), practice, practice, practice!
	FINAL HOUSE DESIGNS ARE DUE
Friday, March 22 4:00pm - 7:00pm	FINAL PRESENTATIONS / GRADUATION Location TBD
	<ul> <li>Hors d'oeuvres, networking</li> <li>Student presentations</li> <li>Presentation of graduation certificates, tool vouchers, and scholarships</li> </ul>
Saturday, March 23	C.P. Ward Field Trip – The Pike Company, 1 Circle Street, Rochester, New York 14607
8:00am – 12:30 pm Mentors & Students Optional	WORK BOOTS ARE REQUIRED
	<ol> <li>Meet at the Pike office at 8 am</li> <li>School bus departs at 8:05 am for C.P. Ward Inc. (100 West River Road, Scottsville, NY)</li> <li>There will be 4 classes, which will rotate every 50 minutes         <ul> <li>a. Estimating</li> <li>b. Equipment maintenance: Diesel Mechanic</li> <li>c. G.P.S. Surveying</li> <li>d. Operating a piece of equipment</li> </ul> </li> <li>Depart C.P. Ward at 12:00 pm; arrive back at the Pike office at 12:30 pm</li> </ol>