

# ACE MENTOR PROGRAM OF ROCHESTER

## PLAYHOUSE SYLLABUS 2025 – 2026



ACE MENTOR PROGRAM  
ARCHITECTURE • CONSTRUCTION • ENGINEERING

Date	Locations & Descriptions
<b>Wednesday, September 10</b> 6:00 pm – 7:00 pm <b>Mentors Optional</b>	<b>Student Open House</b> – Colliers Engineering & Design, 280 E Broad St #200, Rochester, NY 14604 <ul style="list-style-type: none"> <li>• Overview of program and expectations</li> <li>• Parents welcome to attend</li> </ul>
<b>Friday, September 12</b>	<b>Student application deadline</b> ( <a href="http://www.acementor.org">www.acementor.org</a> )
<b>Friday, September 26</b>	<b>Notification sent to all applicants via email with syllabus</b>
<b>Thursday, October 9</b> 4:30 pm - 6:30 pm	<b>Introductions and Scavenger Hunt</b> – LeChase Construction, 205 Indigo Creek Dr, Rochester, NY 14626 <ul style="list-style-type: none"> <li>• Introduction to the ACE Mentor Program <ul style="list-style-type: none"> <li>○ Expectations &amp; syllabus review</li> <li>○ Meet the mentors</li> <li>○ Architectural scavenger hunt</li> <li>○ <b>Collect shirt and shoe size (steel toe boots will be provided to all students)</b></li> </ul> </li> </ul>
<b>Thursday, October 16</b> 4:30 pm - 6:30 pm	<b>Understanding Construction Drawings</b> – Colliers Engineering & Design, 280 E Broad St #200, Rochester, NY 14604 <ul style="list-style-type: none"> <li>• Review a set of construction documents. Locate symbols, find dimensions, determine square footages &amp; materials, etc. <ul style="list-style-type: none"> <li>○ Floor Plans, elevations, sections</li> <li>○ Available tools to create construction drawings</li> </ul> </li> <li>• Playhouse project assigned</li> </ul> <p><b>Assignment:</b> Brainstorm a theme/concept for your playhouse. Bring inspiration images next class.</p>
<b>Thursday, October 23</b> 4:30 pm - 6:30 pm	<b>Playhouse Working Class</b> – LaBella Associates, 300 State St #201, Rochester, NY 14614 <ul style="list-style-type: none"> <li>• Meet your group!</li> <li>• Look at all concept ideas and determine one to move forward with</li> </ul> <p><b>Assignment:</b> 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.</p>

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<b>Thursday, October 30</b> 4:30 pm – 6:30 pm	<b>Civil Engineering</b> – Colliers Engineering & Design, 280 E Broad St #200, Rochester, NY 14604 <ul style="list-style-type: none"> <li>• Overview of civil engineering types</li> <li>• Specific project examples and job expectations</li> <li>• Hands on activities including pipeline design and stormwater modeling</li> </ul>
<b>Thursday, November 6</b> 4:30 pm – 6:30 pm	<b>Playhouse Working Class/Software Introduction</b> - Labella Associates, 300 State St #201, Rochester, NY 14614 <ul style="list-style-type: none"> <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>• Introduction to Sketchup and other design software</li> </ul> <p><b>Assignment: Produce scaled playhouse drawings</b></p>
<b>Saturday, November 8</b> 11:00 am – 1:00 pm	<b>College Tour: (Students to pick 1 college tour)</b> <b>R. I. T. Tour</b> - 2140 Bausch & Lomb Center, 60 Lomb Memorial Drive <b>Alfred State College Tour</b> – 10 Upper College Dr, Alfred, NY 14802
<b>Thursday, November 13</b> 4:30 pm - 6:30 pm	<b>Working Class/Software Introduction</b> - Labella Associates, 300 State St #201, Rochester, NY 14614 <ul style="list-style-type: none"> <li>• Introduction to Sketchup and other design software</li> <li>• ACE laptops issued to groups</li> </ul>
<b>Thursday, November 20</b> 4:30 pm – 6:30 pm	<b>Playhouse Working Class – Finish Playhouse Design</b> - Colliers Engineering & Design, 280 E Broad St #200, Rochester, NY 14604 <ul style="list-style-type: none"> <li>• Bring all work to date (sketches, laptops, anything to be productive)</li> </ul>
<b>Saturday, November 22</b> 9:00 am – 10:30 am	<b>Active Jobsite Tour</b> – Location TBD <ul style="list-style-type: none"> <li>• Job Site Tour</li> </ul> <p style="text-align: center;"><b>WORK BOOTS ARE REQUIRED</b></p>
<b>Thursday, November 27</b>	<b>NO CLASS FOR THANKSGIVING HOLIDAY</b>
<b>Thursday, December 4</b> 4:30 pm – 6:30 pm	<b>Bid Day Experience</b> – LeChase, 205 Indigo Creek Dr, Rochester, NY 14626 <ul style="list-style-type: none"> <li>• Mock bid day experience</li> </ul>

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<b>Thursday, December 11</b> 4:30 pm – 6:30 pm	<b>Playhouse Working Class – Finish Playhouse Design</b> – Stantec, 61 Commercial St #100, Rochester, NY 14614 <ul style="list-style-type: none"> <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> </ul> <p><b>Playhouse drawings DUE at end of class!</b></p>
<b>Saturday, December 13</b> 8:00 am – 12:00	<b>Plumbing Class</b> – Local #13, 1850 Mt Read Blvd North Service Rd, Rochester, NY 14615 <p style="text-align: center;"><b>WORK BOOTS ARE REQUIRED</b></p>
<b>Thursday, December 18</b> 4:30 pm - 6:30 pm	<b>Structural Engineering</b> – Colliers Engineering & Design, 280 E Broad St #200, Rochester, NY 14604 <ul style="list-style-type: none"> <li>• Presentation &amp; hands-on building contest</li> </ul>
<b>Thursday, December 25</b>	<b>NO CLASS – WINTER HOLIDAY</b>
<b>Thursday, January 1</b>	<b>NO CLASS – WINTER HOLIDAY</b>
<b>Thursday, January 8</b> 4:30 pm – <b>7:30 pm</b>	<b>Playhouse Construction Day 1 – Build Day</b> - ITEC Training and Education Center, 105 McLaughlin Rd., Rochester, New York 14615 <p style="text-align: center;"><b>WORK BOOTS ARE REQUIRED.</b> Wear clothes that can get dirty/painted.</p>
<b>Saturday, January 10</b> 8:00 am – 12:00 pm	<b>Metal Stud Framing Competition</b> - Carpenters Union Hall Training Facility, 21 Jetview Drive, Rochester, NY 14624 <p style="text-align: center;"><b>WORK BOOTS ARE REQUIRED</b></p>
<b>Tuesday, January 13</b> 4:30 pm – 6:30 pm	<b>Special Inspections</b> – Colliers Engineering & Design, 280 E Broad St #200, Rochester, NY 14604 <ol style="list-style-type: none"> <li>1. Meet with climbers, divers, and surveyors to learn about different special inspections.</li> <li>2. Drones in construction.</li> </ol>
<b>Thursday, January 15</b> 4:30 pm – <b>7:30 pm</b>	<b>Playhouse Construction Day 2 –Build Day</b> – ITEC Training and Education Center, 105 McLaughlin Rd., Rochester, New York 14615 <p style="text-align: center;"><b>WORK BOOTS ARE REQUIRED.</b> Wear clothes that can get dirty/painted.</p>

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<b>Thursday, January 22</b> <b>4:30 pm – 7:30 pm</b>	<b>Playhouse Construction Day 3 – 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.
<b>Saturday, January 24</b> <b>8am-12pm</b>	<b>Playhouse Construction Day (AS-NEEDED)</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.
<b>Thursday, January 29</b> <b>4:30 pm – 7:30 pm</b>	<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.
<b>Saturday, January 31</b> <b>8:00 am – 12:00 pm</b>	<b>Electrical Construction</b> – JATC, 3540 Winton Place, Rochester, NY 14623  <b>WORK BOOTS ARE REQUIRED</b> <ul style="list-style-type: none"> <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> </ul>
<b>Thursday, February 5</b> <b>4:30 pm – 6:30 pm</b>	<b>Working Class for Museum Design Project</b> – Stantec, 61 Commercial St #100, Rochester, NY 14614 <ul style="list-style-type: none"> <li>• Design project assigned</li> <li>• Begin discussions of site and client</li> </ul> <p><b>Assignment:</b> Choose site for design project and continue developing floor plans. Draw site diagrams showing how the building is situated on the site.</p>
<b>Saturday, February 7</b> <b>8am-12pm</b>	<b>Playhouse Construction Day (AS-NEEDED)</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.
<b>Thursday, February 12</b> <b>4:30 pm – 6:30 pm</b>	<b>LEGO Project Management Game / Museum Design Project Working Class</b> - Pike Construction Services, 1 Circle Street, Rochester, NY 14607 <ul style="list-style-type: none"> <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> </ul> <p><b>Assignment:</b> Continue to develop design drawings</p>
<b>Thursday, February 19</b>	<b>NO CLASS – FEBRUARY BREAK</b>
<b>Thursday, February 26</b> <b>4:30 pm – 6:30 pm</b>	<b>Interior Design</b> – Colliers Engineering & Design, 280 E Broad St #200, Rochester, NY 14604 <ul style="list-style-type: none"> <li>• Tour material library</li> <li>• Hands-on project – create mood boards</li> </ul>

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<b>Thursday, March 5</b> 4:30 pm – 6:30 pm	<p><b>Working Class/Practice Presentations – SWBR</b></p> <ul style="list-style-type: none"> <li>• Bring all work to date (sketches, laptops, anything to be productive)</li> <li>• Present house designs to the group / receive feedback</li> <li>• Work with mentors on 3D model, plans, sections, elevations, etc.</li> </ul> <p><b>Assignment – Progress drawings, label materials, and set up presentation boards.</b></p>
<b>Saturday, March 7</b> 8:00 am – 12:00 pm	<p><b>Masonry – Local #3, 33 Saginaw Dr., Rochester, NY 14623</b></p> <p style="text-align: center;"><b>WORK BOOTS ARE REQUIRED</b></p>
<b>Thursday, March 12</b> 4:30 pm – 6:30 pm	<p><b>MEP Engineering/Working Class – Erdman Anthony, 145 Culver Rd #200, Rochester, NY 14620</b></p> <ul style="list-style-type: none"> <li>• Learn the principles of Mechanical, Electrical, and Plumbing Engineering</li> <li>• Hands-on activity</li> </ul>
<b>Thursday, March 19</b> 4:30 pm – 6:30 pm	<p><b>Working Class/Practice Presentations – LaBella Associates, 300 State St #201, Rochester, NY 14614</b></p> <ul style="list-style-type: none"> <li>• Bring all work to date (sketches, laptops, anything to be productive)</li> <li>• Present house designs to the group / receive feedback</li> <li>• Work with mentors on 3D model, plans, sections, elevations, etc.</li> </ul> <p><b>Assignment – Finalize all drawings, materials, and presentation boards. Make note cards (optional), practice, practice, practice!</b></p> <p style="text-align: center;"><b>FINAL PRESENTATION SHOULD BE COMPLETE</b></p>
<b>Saturday, March 21</b> 8:00 am – 12:00 pm	<p><b>C.P. Ward Field Trip – Pike Construction Services, 1 Circle Street, Rochester, New York 14607</b></p> <p style="text-align: center;"><b>WORK BOOTS ARE REQUIRED</b></p> <ol style="list-style-type: none"> <li>1. Meet at the Pike office at 8 am</li> <li>2. School bus departs at 8:05 am for C.P. Ward Inc. (100 West River Road, Scottsville, NY)</li> <li>3. There will be 4 classes, which will rotate every 50 minutes           <ol style="list-style-type: none"> <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> </ol> </li> <li>4. Depart C.P. Ward at noon; arrive back at the Pike office at 12:30 pm</li> </ol>
<b>Monday, March 23</b>	<p><b>Final Presentations Due (No Class). Please submit to <a href="mailto:RochesterNY@acementor.org">RochesterNY@acementor.org</a> by end of day.</b></p>
<b>Friday, March 27</b> 4:30pm – 7:30pm	<p><b>ACE Graduation – Memorial Art Gallery, 500 University Ave, Rochester, NY</b></p> <ol style="list-style-type: none"> <li>1. Network with Professionals</li> <li>2. Playhouse Presentations</li> <li>3. Community Park Presentations</li> <li>4. Scholarship Presentation</li> </ol>

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