

SYLLABUS 2018 – 2019



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Date	Locations & Descriptions
Thursday, September 13 6:00pm – 7:00pm	ACE Mentor Open House - (Dwyer Architectural, 17 Pitkin St, Suite 200, Rochester, NY 14607)
Thursday, September 20	Student applications are due
Thursday, September 27	Notification sent to all applicants via email
Thursday, October 4 4:00pm - 6:00pm	<p>Meeting #1 – Introduction & Scavenger Hunt – (LaBella Associates, 300 State Street Suite 201, Rochester, NY 14614)</p> <ol style="list-style-type: none"> 1. Introduction to ACE Mentorship <ol style="list-style-type: none"> a. Expectations b. Review of syllabus c. Photos & projects from previous years 2. Meet the mentors 3. Scavenger hunt! <p>Assignment - Get permission form signed.</p>
Thursday, October 11 4:00pm - 7:00pm	Meeting #2 - Understanding Different Leadership Styles - (Dale Carnegie, 1200A Scottsville Road, Rochester, NY 14624)
Thursday, October 18 4:00pm - 6:00pm	<p>Meeting #3 - Understanding Construction Drawings - (SWBR Architects, 387 East Main Street Suite 500, Rochester, NY 14604)</p> <ol style="list-style-type: none"> 1. Review a set of construction documents from a medium size project. Locate symbols, find dimensions, determine square footages & materials, etc. <ol style="list-style-type: none"> a. Dimensions b. Scale c. Construction Document Symbols d. What is an elevation e. What is a section f. What is a floor plan g. Available tools to create construction drawings 2. Discussion on Metal Stud Framing and Drywall presented by Davis Fetch <ol style="list-style-type: none"> a. Use of hand tools in drywall and metal stud framing 3. Begin playhouse project <ol style="list-style-type: none"> a. Groups of 6 max – exchange contact info b. Brief presentation on concept/idea/diagram <p>Assignment – Brainstorm a theme/concept for your playhouse. Bring inspiration images.</p>
Saturday, October 20 8:00am – 12:00pm	<p>Meeting #4 – Metal Stud Framing Experience – (Davis Fetch, 175 Dodge St, Rochester, NY 14606)</p> <ol style="list-style-type: none"> 1. Construct two metal stud rooms and drywall installation.

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Thursday, November 1 4:00pm - 6:00pm	Meeting #5 – Structural Engineering – (SWBR Architects, 387 East Main Street Suite 500, Rochester, NY 14604) <ol style="list-style-type: none"> 1. Structural engineering presentation 2. Carpenter presentation on concrete forming 3. Spaghetti and gum drop structures in groups 4. Present concepts within each group <p>Assignment – Decide on your group’s playhouse concept. Begin sketching how this concept can translate into design features in plan, section, elevation, or 3D. Use diagrams if helpful</p>
Saturday, November 3 8:00am - 12:00pm	Meeting #6 – Concrete Forming Competition – (Pike Equipment Yard (old Otis Lumber Building), 936 East Main Street, Rochester, NY 14605) <ol style="list-style-type: none"> 1. Students will be divided into three teams: LeChase, Pike and Manning Squires
Thursday, November 15 4:00pm - 6:00pm	Meeting #7 - Estimating / BIM Technology / Working Class – (The Pike Co., 1 Circle St., Rochester, NY 14607 - Entrance is in back of bldg.) <ol style="list-style-type: none"> 1. Introduction to estimating software 2. BIM Technology 3. Work in groups to continue developing playhouse drawings <p>Assignment – Combine everyone’s playhouse ideas into 1 design. Draw all playhouse drawings to scale.</p>
Thursday, November 29 4:00pm - 6:00pm	Meeting #8 – Mechanical Engineering and Plumbing Experience – (Postler & Jaeckle Mechanical Corporation, 615 South Ave, Rochester, NY 14620) <ol style="list-style-type: none"> 1. Reading mechanical drawings 2. Group exam on mechanical drawings 3. Plumbing tools and how they are used
Saturday, December 1 8:00am - 12:00pm	Meeting #9 – Field Experience for Plumbing - Local 13 Plumbers & Pipefitters Training Center, 1850 Mt Read Blvd, Rochester, NY 14615)
Thursday, December 6 4:00pm - 6:00pm	Meeting #10 - Bid Day Experience - (LeChase Construction, 205 Indigo Creek Drive, Rochester, NY 14626) <p>Simulate the bidding process:</p> <ol style="list-style-type: none"> 1. Review drawings for a hypothetical project 2. Contact contractors and get quotes 3. Determine total estimated project cost based on qualified low bidders <p>Assignment – Draw all playhouse drawings to scale.</p>
Thursday, December 13 4:00pm - 6:00pm	Meeting #11 – Landscape Architecture & Urban Design – (Passero Associates, 242 West Main Street, Suite 100, Rochester, NY 14614) <ol style="list-style-type: none"> 1. TBD

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	<p>2. Present playhouse project to the group / receive feedback</p> <p>Assignment – Draw all playhouse drawings to scale.</p>
<p>Thursday, December 20 4:00pm - 6:00pm</p>	<p>Meeting #12 – Playhouse Working Class / SketchUp / Virtual Reality Demo - (LaBella Associates, 300 State Street Suite 201, Rochester, NY 14614)</p> <ol style="list-style-type: none"> 1. Present playhouse drawings to the group 2. Utilize time with Mentors to make sure dimensions are correct & materials are labeled. Mentors will help model your designs in SketchUp. 3. Students will take turns using a virtual reality headset. 4. Turn in playhouse drawings <p>Assignment – Playhouse drawings due!</p>
<p>Thursday, January 3 4:00pm - 7:00pm</p>	<p>Meeting #13 – Playhouse Construction Day 1– Rough Carpentry/Framing - (Pike, 1 Circle St., Rochester, NY 14607)</p> <p style="color: red;">Dress warm, the temperature in the warehouse is approximately 40 degrees</p>
<p>Thursday, January 10 4:00pm - 7:00pm</p>	<p>Meeting #14 – Playhouse Construction Day 2– Sheathing/Erecting Walls - (Pike, 1 Circle St., Rochester, NY 14607)</p> <p style="color: red;">Dress warm, the temperature in the warehouse is approximately 40 degrees</p> <ol style="list-style-type: none"> 1. Need to make paint selection & choose roof colors (if applicable)
<p>Thursday, January 17 4:00pm - 7:00pm</p>	<p>Meeting #15 – Playhouse Construction Day 3– Roofing/Misc. - (Pike, 1 Circle St., Rochester, NY 14607)</p> <p style="color: red;">Dress warm, the temperature in the warehouse is approximately 40 degrees</p> <ol style="list-style-type: none"> 1. Elmer Davis Roofing 2. Primer Painting
<p>Thursday, January 24 4:00pm - 7:00pm</p>	<p>Meeting #16 – Playhouse Construction Day 4 – Painting/Finishes - (Pike, 1 Circle St., Rochester, NY 14607)</p> <p style="color: red;">Dress warm, the temperature in the warehouse is approximately 40 degrees</p> <ol style="list-style-type: none"> 1. Exterior Trim Finish 2. Finish Paint 3. 1500 SF house project assigned <p>Assignment: Draw diagrammatic floor plans using the concept from your playhouse.</p>
<p>Thursday, February 7 4:00pm - 6:30pm</p>	<p>Meeting #17 – Electrical Training - (NECA, 470 West Metro Park, Suite B, Rochester, NY 14623)</p> <ol style="list-style-type: none"> 1. Reading electrical drawings 2. Understanding electrical hand tools and how they are used <p>Assignment – Choose site for 1500SF house & continue developing floor plans. Draw site diagrams showing how the house is situated in the site.</p>
<p>Saturday, February 9 8:00am – 12:00pm</p>	<p>Meeting # 18 – Electrical Field Experience – (NECA, 470 West Metro Park, Suite B, Rochester, NY 14623)</p>

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Thursday, February 14 4:00pm - 6:00pm	Meeting #19 – 1500SF House Design Working Class – (LaBella Associates, 300 State Street Suite 201, Rochester, NY 14614)
Thursday, February 28 4:00pm - 6:00pm	Meeting #20 –Roofing and Painting– (Upstate Roofing and Painting, 1300 County Rd 85, Rochester, NY 14623)
Saturday, March 9 TBD	FIELD TRIP - Active Construction Site TBD
Thursday, March 14 4:00pm - 6:00pm	<p>Meeting #21 – 1500SF House Design Working Class – (LaBella Associates, 300 State Street Suite 201, Rochester, NY 14614)</p> <ol style="list-style-type: none"> 1. Present house designs to the group / receive feedback 2. Work with mentors on 3D model, plans, sections, elevations, etc. <p>Assignment – Make 1500SF house presentation boards & send digital file to mentors.</p>
Thursday, March 21 4:00pm - 6:00pm	<p>Meeting #22 – Presentation Coaching - David Beinetti - (SWBR Architects, 387 East Main Street Suite 500, Rochester, NY 14604)</p> <ol style="list-style-type: none"> 1. Dry run of presentations with critique by David Beinetti <p>Assignment – Make note cards (optional), practice, practice, practice!</p>
Saturday, March 23 10:00am – 6:00pm	<p style="text-align: center;">ROCHESTER HOME & GARDEN SHOW 2018 (Rochester Riverside Convention Center, 123 E Main St., Rochester, NY 14604)</p> <p>(4) Student Volunteers per day needed to be present at the ACE Booth. Please be prepared to talk about the program with local professionals, vendors, and the Rochester Community!</p> <p>*Each day will be split into 2 shifts (early & late). As a volunteer, you are not obligated to stay for the full duration of your shift. More details will be distributed as the event date approaches.</p>
Sunday, March 24 10:00am – 5:00pm	
Friday, March 29 4:00pm - 7:00pm	<p style="text-align: center;">FINAL PRESENTATIONS / GRADUATION (Strathallan Hotel, 550 East Ave, Rochester, NY 14607)</p> <ul style="list-style-type: none"> • Silent auction, hors d'oeuvres, networking • Student presentations • Presentation of graduation certificates and scholarships