

Berrien Springs Partnership Syllabus and Instructor Qualifications



Class Title:

Advanced Architectural Design and Drawing: Hand-drawing & Computer Modeling

Grades Levels: Grade 9th thru 12th

Class format: Online (Zoom)

Spring Start Date: Sept 6, 2022 **End Date:** Dec 13, 2022

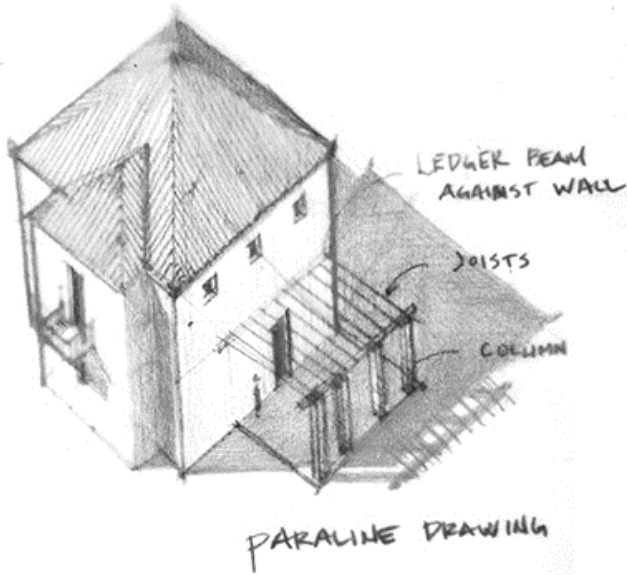
Schedule: Tuesdays: 1:00 to 2:30

Course Description: In this course of creative use of design principles, with freehand and computer-aided drawing techniques, students will explore a variety of topics related to human experience and architectural design. Students will produce hand-drawn and 3-d computer models of their architectural design.

Materials: 8.5" x 11" paper. Sketch pencils (recommend PALOMINO Blackwing 602Pencil, Computer with Internet, for Zoom and free access to SketchUp for Web account.

Learning Objectives: students will

- expand their learning about philosophical, historical, and architectural design.
- learn and practice computer program, "Sketchup," and hand-drawing techniques.
- learn about critical thinking as relates to critique processes.
- gain working vocabulary & knowledge of architecture and architectural drawing communications.
- Gain working knowledge of presentation and communication skills, Interface with professionals in the field of Design



Course Culture

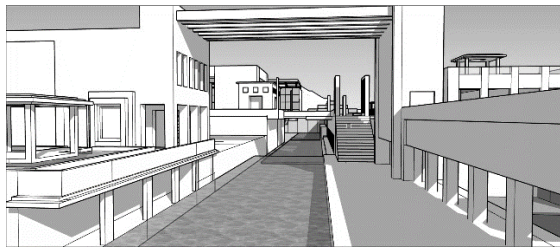
Class will meet on Zoom, where we will learn about and practice drawing with creative design principles and techniques. Projects will be assessed regularly in class and in Google Slides.

Our main project for the semester will focus on designing an urban Marketplace

Schedule: (14 weeks)

(Students are to post their in-class drawings to Google Slides at end of each class)

- Sept 6 - Intro to course, term project, design and hand-drawing techniques
- Sept 13 - Hand-drawing, 2 dimensional drawings: floor plans
- Sept 20 - Hand-drawing, 2 dimensional drawings: elevations and sections
- Sept 27 - Hand-drawing, 2 dimensional drawings, combined
- Oct 4 - Intro to 3 dimensional hand-drawing
- Oct 11 - *no class*
- Oct 18 - 3 dimensional hand-drawings
- Oct 25 - 3 dimensional hand-drawings
- Nov 1 - Intro to drawing in Sketchup
- Nov 8 - Sketchup drawings as design underlay
- Nov 15 - Sketchup drawings as design underlay
- Nov 22 - Sketchup drawings as design underlay
- Nov 29 - Sketchup drawings, refined, (discuss final presentation)
- Dec 6 - Sketchup drawings, refined (discuss final presentation)
- Dec 13 - Turn in term project: Final review with guest critic



Instruction Qualifications:

Education 1988-1991:

Harvard Graduate School of Design –
Masters Degree in Architecture

1980-1985 University of Texas at Arlington –
Bachelor of Science in Architecture

Professional Experiences

2007 to present Founder and Director of Renaissance Kids Architecture Camp

www.andrews.edu/renkids

1994 to present college level teaching architecture

2017, co-teach innovations/Entrepreneur classes

Presenter at International Conference for Making Cities Livable,,

2019- Portland, OR, 2021, Carmel Indiana, 2022, Paris, France

Student Assessment

Students will post their weekly works in a Google Drive Slideshow for regular review, discussion and assessment.

Fail/Pass option: Pass: Students cooperate during lesson time, practice at home, and demonstrate progress to receive a passing grade.

All classes abide by the following:

1. The student must agree to attend at least 1.25 hours per week. Attendance is kept online and tracked by Partnership staff. Failure to meet 80% or be on track to meet 80% may result in program discontinuation.
2. The Partnership Student Assessment or Performance Form is filled out by the teacher and turned in to Partnership staff. Failing marks for lack of participation, behavior issues, practice time, etc. may result in program discontinuation.
3. By signing up for this class, the instructor and parents are giving permission to record Zoom sessions and to use images suited for promoting the children and their efforts.
4. Class Policies: attendance, behavior, and weather:
Attendance: Professor and students must meet on time and be respectful toward each other always. Classes are not canceled due to weather. Communications regarding absences is expected, in advance if possible.