

**University of Oregon  
Landscape Architecture Department  
Winter 2014 Course Description: LA 489/589  
Stangeland/Misar**



The unique focus of this class is centered on the professional preparation of contractual documents. The engagement of this work simultaneously addresses the programmatic expectations of our client, a profound and meaningful response to the environment, public safety, accessibility, and financial affordability. The results of this class will be a compilation of word documents, excel spreadsheets, rendered drawings, and construction documents.

The emphasis in this class will be the integration of your technical and design skills. This studio offers the opportunity to demonstrate your capacity to see the construction of landscapes as a complex ensemble of structural and plant materials, theoretical insights, historical influences, etc. We are immensely interested in the physicality of your project and how we can shape your dreams into reality.

Our goal is a set of construction drawings for a plaza for the new Pacific Northwest College of Arts (PNCA) in Portland, Oregon. PNCA, located at the corner of NW Glisan and Park, is adjacent to the park blocks and is undergoing a restructuring of the parking lot adjacent to the future school. The PNCA is in talks with the City of Portland Parks Department on how to plan for a new extension of the park blocks to the north. The schematic plans from the 2013 spring design studio of the same site will be used as guides for preparing design development plans. The current parking lot will be removed and the entire block will be the area of focus for the new plaza. Specifically, PNCA is seeking proposals to design a plaza that can support a larger influx of students attending the school. This new plaza must support an expanded program of elements and will incorporate design solutions that follow best management practices. The design will need to address plaza designs on brownfield sites, universal accessibility, bicycle parking, lighting and storm water best management practices. The final construction drawing set

will require you to prepare several different plan drawings including but not limited to: site plan, grading plan, dimensioning plan, lighting plan, and planting plan. Sections, elevations, and details sufficient to bid and construct your design will also be included in your submission.

The term will commence with a series of site visits to plazas and courtyards around the campus area which will focus on strategies for grading, materiality and construction dimensioning. The first Saturday of the term **January 11<sup>th</sup>**, students will take an all day field to trip to Portland to visit the site, meet our client and hear programmatic intentions for the new plaza. **THIS FIELD TRIP IS REQUIRED.** The first two weeks will focus on defining what landscape construction drawings are, where they fit into the design process and how they are part of the larger construction document. Through a series of lectures, readings, and assignments, students will practice doing layout plans, grading plans and the detailing of key elements for the plaza. During the field trip to Portland we will visit the Portland Park blocks, PSU Campus, Directors Park, Jamieson Square and Tanner Springs to photograph, sketch, measure key plaza features i.e., paving material, drainage systems, bollard, lighting and all other materials to be used in the final design. The goal is to use these assignments to prepare us for the work that will be required in the preparation of your construction drawings. In addition to this work, we will use current CAD base drawings to study design options in plan view, 3D models, and section/elevations to assist in our thinking about these structures and landscape elements. Work sessions on grading, dimensioning, detailing, planting design, lighting and paving design will be held weekly. Students will use their plaza to study each one of these facets of design development and construction drawings.

Our mid term review will include client and invited professional review of your detail designs for the plaza. The mid term review will include design development plans, 60% complete set of construction drawings, sketch up model, materials board, furniture and lighting selections, and an illustrative poster showing imagery of the project. The review will focus on critiquing the 60 % completion set of construction drawings.

Immediately following the mid term each student will have an individual desk critique and review to assess how the student is performing in class.

The remainder of the studio will focus on construction drawing set process and the preparation of the final construction drawings. You will now be able to refine details, construction drawings, printing a draft set, redline and adjust your drawings.

### **Lectures:**

1. Grading and Drainage for a flat site, incorporating storm water from covered structure, storm water run off and curb less street.
2. Detailing of splash pads, interactive fountain, benches, bollard, lighting, drinking fountains and flow through planters
3. Research of Building Materials (Visit to Lane Forest Products, Pacific Stonescapes, Rexius, Willamette Graystone, Bloomers, Gosslers, Greers, etc.

4. Design Development, Illustrative Plan and Presentation
5. Studying overhead structures for the plaza
6. Understanding of the underground mechanical systems and above ground locations
7. Guest Architect into discuss structural connections and materiality of the structure itself.
8. Construction Drawing Process
9. Site Plan legend
10. Construction Details
11. Grading Plan
12. Layout Plan
13. Site Plan
14. Planting Plan
15. Lighting Plan

### **Grading Policy:**

The class is a Pass/No Pass class. At mid term students will be informed whether the work and attendance is deserving of a pass. Attendance, turning in the assignments on time, and completing all of the assignments is a must. This will account for 65% of the grading policy. The students will be allowed two excused absences. Students needing to take an incomplete will need to get approval from advisor and professor. Students who opt to take an incomplete will be required to use the course work from the term, and will still be expected to complete the design set. Students working in the computer lab must attend class at the beginning and end of each studio.

### **Objectives:**

Complete understanding of how to assemble a comprehensive set of construction drawings.

To prepare a set of construction documents that is complete, accurate with the highest quality of drafting and line weights. Drawings that are portfolio quality!

Gain a level of efficiency in drafting a set of construction drawings

How to take a schematic design and develop into a set of construction drawings by deconstructing the design into grading studies, material studies that are carefully and geometrically accurate, and details that can be used and applied to all of the plans in the set.

### **Reading Material:**

Architectural Graphic Standards, American Institute of Architects  
Time Saver Standards for Landscape Architecture, Harris and Dines  
Constructing Landscape, Zimmermann

Site Engineering, Strom/Nathan and Woland  
Up by Roots, Urban  
Landscape Architecture Construction, Landphair and Klatt  
Landscape Lighting, Moyer

### Construction Drawings:

2113 Tech Studio Students Final Drawings, Stangeland/Lovinger  
Chase Medical Center Construction Drawing Set, Stangeland & Associates  
Hebrew Union College Construction Drawing Set, Lovinger & Associates  
Ankeny Plaza construction drawings, Walker/Macy  
Directors Park construction drawings, Mayer/Reed  
Mat Knight Arena construction drawing, Walker/Macy  
School of Music Construction Drawings, Lango/Hansen

