

## **Rutgers, The State University of New Jersey**

**Spring 2024**

### **2D Digital Design & Drafting**

**Course Code:** Landscape Architecture 11:550:345 (1.5 Credits)

**Instructor:** Haemee Han, LLA, ASLA

**Location :** Blake Hall Room 129

**Email :** [haemee.han@rutgers.edu](mailto:haemee.han@rutgers.edu)

**Office House:** By Appointment Only

**Course Time :** Tuesday 8:30 AM– 11:30 AM & Friday 8:30 AM– 11:30 AM

#### **Course Description:**

This course is an introduction to the fundamental principles of digital representations, and computer drafting, as well as the software, techniques and products appropriate for presenting conceptual illustrative graphics. Essential tools for the landscape architect, both graphic design and computer-aided design (CAD) include visual communication and design software that can help the individual convey design intent throughout the lifecycle of the design, effectively communicating and selling ideas to fellow professionals and clients.

Adobe Design CS offers the designer a suite of graphic design programs while AutoCAD is the industry standard for drafting, bridging landscape architecture, architecture, and engineering and allowing for a seamless exchange of ideas and output. This course expands upon the drawing and drafting fundamentals acquired in Landscape Drawing 550:237 and the introductory studios, expanding the students' toolbox to include graphic design, digital representation, and AutoCAD.

#### **Learning Objectives:**

1. Create drawings at a greater complexity of scale and information.
2. Develop representational and file management skills required for the Design Studio sequence of classes.
3. Learn the types and use of technical and illustrative representational methods in the design process.

#### **Course Format:**

1. Lecture / Presentations
2. In-Class Exercises & Tutorials
3. Weekly Assignments & Pin-Ups

#### 4. Final Design Package

#### **Student Obligations and expectations:**

The course is a prerequisite in the Landscape Architecture degree program and the second in the sequence of Visualization courses required by the student for graduation. In accordance with University policy, students are expected to work an additional 9.75 hours per week outside of class. Therefore, please prepare appropriate time in your schedule this semester in relationship to your other course work, employment and social obligations to prepare for and participate in class.

Students are expected to:

1. Complete and submit all assignments as directed on the designated due date. Late coursework will not be accepted unless approved by the instructor.
2. Come to class on time. Four (4) Late arrivals will be considered as one (1) absence.
3. Take notes during class presentations to help retain knowledge and repeat procedures outside of class. The instructor will not review any content that has been missed by a student's absence. Your attendance will be directly related to your success in this class.
4. Care. Put 100% into every one of your assignments and be proud of the work you produce in this class. Treat each assignment like it is your last.
5. Seek help, when needed, during office hours and in advance of an assignment's due date.

#### **Equipment and Use of Facilities:**

The Department of Landscape Architecture requires that each student purchase a laptop [[http://landarch.rutgers.edu/current\\_students/laptoprequire.html](http://landarch.rutgers.edu/current_students/laptoprequire.html)]. In addition to the laptop, you will need a roller-ball style mouse. NOTE: The computer lab is not accessible when a class is in session. A schedule of courses using the Lab is posted on at the entry of the lab. The Lab is a shared resource for the entire school body. Project deadlines will NOT be extended because resources were not available in the computer lab. Please plan your time accordingly. Please be aware that the Department's computer guidelines require a PC-based platform. There are differences between PC and MAC based platforms and programs. The computer lab is PC based and the Department supports PC based software. If you choose to utilize a MAC, you must adhere to the guidelines provided. AutoCAD 2020 and Adobe CC are installed on all desktop computers in the lab.

AutoCAD 2020: Students are required to download a copy of the free student licenses for AutoCAD 2020 software to their individual laptops for their personal use. Find the free downloads at: [students.autodesk.com](http://students.autodesk.com). Select "Free software" tab at the top of the page and follow the instructions to download the basic platforms. If you have an issue with the download, see me.

Adobe Creative Cloud (CC) Each student must have Adobe Photoshop, InDesign, and Illustrator on her/his computer. Adobe Creative Cloud (CC) is subscription software that can only be purchased online. A student plan costs \$19.99 per month for the first year (prices as of January 2020). In the

computer lab, Photoshop, InDesign and Illustrator (CC) are installed on all computers.

Courses cannot be taught without reliable facilities. The student is expected to use facilities and equipment [printers, projectors, cameras, drafting, and computer equipment] responsibility with particular regard to the clearly established rules about their use as specified in the student handbook: Facilities & Equipment rules cover access to the lab, vandalism, seat assignments, personalization of working spaces, smoking and drinking, use of lockers, access to the reference collection, and basic rules governing the use of computer lab. Please note the department has determined that there is no eating or drinking allowed in the computer lab. Failure to observe these rules may result in loss of access to the lab. Access to the fabrication lab is granted after successfully passing the safety instructions. Access is monitored and can be revoked if students use tools they are not qualified to use or if students do not clean up after themselves.

### **Attendance:**

The Department of Landscape Architecture requires attendance in all of its classes. All studio meetings including both Lecture and Lab are required. The individual student's development as a landscape architect is largely dependent upon two aspects of education. First, is the exposure to an assimilation of a body of information, which relates to the field. Second, is the application of this knowledge through studio projects and problem-solving skills developed through critiques, reviews, and interactions during each project. The Rutgers Landscape Architecture curriculum is designed to develop both areas. Attendance and participation in all lectures and studios are essential if the student is to achieve their maximum potential. **It is the Policy of the department that more than three (3) unexcused absences will result in a reduction of the final course grade.** Each additional three absences will result in another step reduction. If circumstance arises beyond your control, please notify the instructor prior to the class meeting, and other arrangements will be made. Please note that attendance is taken at the start of class and late arrivals greater than 10 minutes will be documented as a full absence. 3 In addition, students may not leave the class prior to the official end time of class unless the instructor has officially dismissed the students, or the early departure has been pre-arranged with the instructor in advance. In-class exercises will be handed out during class periods; there will not be a chance to make up missed exercises.

### **Policies:**

If you encounter any personal circumstances that inhibit your ability to fulfil the requirements of this course, you should immediately contact the instructor. In addition, any student with a special need, circumstance, or disability, should make an appointment to see the instructor during the first week of classes. If there is a plotting problem, PDF files can be uploaded or emailed to the instructor and the assignment will not be considered late. All information in this syllabus and course schedule is subject to change. While students are encouraged to work alongside one another to learn the tools and techniques presented in this course and foster a positive studio environment, copying or sharing of digital information is not acceptable and will be considered a violation of the school's Integrity Policy.

### **Academic Integrity:**

## 1. Attendance Policy

The Department of Landscape Architecture requires attendance in all of its classes. The individual student's development as a landscape architect is largely dependent upon two aspects of education. First, is the exposure to an assimilation of a body of information which relates to the field. Second, is the application of this knowledge through studio projects and problem-solving skills developed through critiques, reviews, and interactions during each project. The Rutgers Landscape Architecture curriculum is designed to develop both areas. Attendance and participation in all lectures and studios are essential if the student is to achieve their maximum potential. It is the Policy of the department that more than three (3) unexcused absences will result in a reduction of the final course grade. Each additional three absences will result in another step reduction. If circumstances arise beyond your control, please notify the instructor prior to the class meeting, and other arrangements will be made. Please note that attendance is taken at the start of class and late arrivals greater than 10 minutes will be documented as a full absence. In addition, students may not leave the class prior to the official end time of class unless the instructor has officially dismissed the students, or the early departure has been pre-arranged with the instructor in advance. In-class exercises will be handed out during class periods; there will not be a chance to make up missed exercises.

## 2. Excused absences

An excused absence includes a written excuse from a Physician, excuse from the Dean of the College, or a field trip for another course if this instructor is notified one week or more in advance.

## 3. Due dates, deadlines, and presentations

Assignments must be submitted on the stated due date, time and place regardless of how complete or incomplete it is.

## 4. Policy for make-up work due to excused absence

Upon return from an excused absence, a student has one week to turn in any missed assignments without penalty.

## 5. Students needing assistance:

Students who know or suspect that they have any type of disability which may affect their performance in the class must inform the instructor of such disability in writing before the third class meeting. The professor will work with the University Counseling and Testing Center to accommodate the needs of such students. Without such notification, no special accommodations will be considered at any later date.

## 6. Special Circumstances:

Other situations will be dealt with on a case by case basis between the student and the instructor outside of class time. Arrangements will be made in writing and signed by both parties. Do not discuss late work or absences during class time.

## 7. Work ethics and standards:

Professionalism is requested. If presenting, students will be expected to wear professional dress.

During studio, casual clothes suitable for work in an office will be the standard. Professional work days require evidence of self-directed learning and initiative. All students are encouraged to work together in the studio outside of class time rather than at home. You will each benefit from the interaction with classmates and upperclassmen if you take advantage of this opportunity. Typically, students who produce superior work participate fully in the studio environment rather than in isolation.

8. Lab rules and etiquette:

During class time, the following will not be permitted: • Use of tobacco of any form • Playing music or use of earphones • Browsing/surfing the Internet not related to class unless indicated by the class instructor • No pets in the studio & lab • Please observe common courtesy when working with others in the studio.

9. Cell Phone Use:

Cell phone use during class is considered a public distraction and discourteous to those around you. Please turn off your phone during lectures and studio and place your phone out of sight in backpacks, purses or lockers. If you need to communicate using this vehicle – please do so outside of the studio.

10. Documentation of Student's Work:

Students are required to keep all work completed during a semester until the end of the term in order to review progress and aid discussion if necessary.

11. Studio and Computer Lab Work:

All students are encouraged to work together in the studio outside of class time rather than at home. You will benefit from the interaction with classmates and upperclassmen.

12. Academic Honesty:

While students are encouraged to work alongside one another to learn the tools and techniques presented in this course and foster a positive studio environment, copying or sharing of digital information is not acceptable and will be considered a violation of the school's Integrity Policy

**Assessment:**

A :	89.5-100 %
B+ :	84.5-89.49%
B :	79.5-84.49%
C+ :	74.5-79.49%
C :	69.5-74.49%
D :	59.5-69.49%
F :	0-59.49%

**Course Grades:**

Scores for class projects during this semester will be graded and recorded as if for one class. Grades for the two courses will be determined based upon the following performance scale. In

the event of split grades for the two courses, the instructor reserves the right to determine which course to assign grades. Grades will be based upon assessment of your performance.

A | Exemplary Work. Exceptional performance, discipline, and effort. The student is self-motivated to produce above and beyond what is assigned. "A" work shows initiative and independent exploration both in thought and in craft.

B | Good Work. Performance above the norm. A "B+" student completes precise and thoughtful work that executes the assignment in a well-crafted, thoughtful way, with a concept behind it. "B" work meets all expected criteria but lacks conceptual advancement or understanding.

C | Work is Lacking. Mediocre performance, little discipline, and effort. Student barely meets or is lacking the expectations of the assignment, and work is carried out in an unrefined manner.

D | Unacceptable Work. Not meeting the expectations or standards for the assignment and/or program. Student failed to apply the concepts applicable to the assignment. A sense of care does not accompany work submission.

F | Failing, Unacceptable Work. Complete lack of performance and shows no regret for non-compliance with the minimum requirements.

### **Assignments:**

Students will be given weekly assignments at the end of each class on Tuesday. Assignments are to be worked on outside of class time and 'work in progress' is to be discussed during Friday class meetings. Weekly assignments must be uploaded to the 'R' Drive and Canvas by 9:00AM the following Tuesday. Students will be expected to present their weekly assignments at the beginning of the Tuesday class. The due date and time will be reiterated on the assignment sheets found in the 'R' Drive and on Canvas.

Assignments will be returned in class the following week. If a student misses a class, whether excused or unexcused, it is the responsibility of the student to acquire the missed lecture information, new assignment and submit the previous assignment on time. Except for documented circumstances truly beyond the student's control, all projects that are incomplete on the due date should still be submitted on the due date in their incomplete state, to receive a partial credit and fully completed, thereafter for a reduced grade. If a student elects to not submit work, they will receive a zero. Any project work submitted late will lose a letter grade for each day past due. Working beyond a due date is both unrealistic in a professional setting and unfair to classmates who have completed their work on time. Students must conform to the following naming conventions:

550-345\_LastName\_FirstName\_Assignment#

## **Assignment & Grading Schedule**

Weekly Exercises – 90%

Assignment 1 : Plan (1 week) – 15%

Assignment 2 : Section (1 week) – 15%

Assignment 3 : Detail (1 week) – 15%

Assignment 4 : Illustrative Plan (1 week) – 15%

Assignment 5 : Illustrative Section (1 week) – 15%

Assignment 6 : Diagrams + Project Booklet (1.5 week) – 15%

Class Participation – 10%

## **Class Schedule Cohort 1**

<b><u>Day</u></b>	<b><u>Date</u></b>	<b><u>Class Assignment</u></b>
<i>Week 1 : Intro</i>		
Tue.	1/16	Introduction
		Tutorial : Basic Drafting (Layers, Interface)
Fri.	1/19	Tutorial : Plotting (Model Space to Paper Space)
<i>Week 2 : Plan</i>		
Tue.	1/23	Tutorial : Basic Drafting II (Lineweight, Hatch & Annotation)
Fri.	1/26	Tutorial : AutoCAD Block, Xref Assignment 1 Due
<i>Week 3 : Sections &amp; Elevations</i>		
Tue.	1/30	Tutorial : Basic Drafting III
Fri.	2/2	<b>No Class – Construction II field trip</b>
<i>Week 4 : Details</i>		
Tue.	2/6	Tutorial : AutoCAD + Illustrator Assignment 2 Due
Fri.	2/9	Tutorial : AutoCAD + Illustrator (+ Photoshop)
<i>Week 5 : Illustrative Plan</i>		
Tue.	2/13	Tutorial : AutoCAD + Illustrator Assignment 3 Due
Fri.	2/16	Tutorial as needed
<i>Week 6 : Diagrams + Illustrative Section</i>		
Tue.	2/20	Tutorial : Diagrams Assignment 4 Due
Fri.	2/23	Booklet Tutorial as needed
<i>Week 7 : Final Presentation</i>		
Wed.	2/27	Work Session
Fri.	3/1	Final Presentation via Zoom, Assignment 5+6 Due

\*The detailed schedule above is tentative and may change as the course develops

## **Class Schedule**



## Cohort 2

<u>Day</u>	<u>Date</u>	<u>Class Assignment</u>
<i>Week 1 : Plan</i>		
Tue.	3/5	Introduction Tutorial : Basic Drafting (Layers, Interface)
Fri.	3/8	Tutorial : Plotting (Model Space to Paper Space)

### Spring Break 3/9-3/17

<i>Week 2 : Sections &amp; Elevations</i>		
Tue.	3/19	Tutorial : Basic Drafting II (Lineweight, Hatch & Annotation) Assignment 1 Due
Fri.	3/22	Tutorial : AutoCAD Block, Xref

<i>Week 3 : Details</i>		
Tue.	3/26	Tutorial : Basic Drafting III Assignment 2 Due
Fri.	3/29	Tutorial as needed

<i>Week 4 : Illustrative Plan</i>		
Tue.	4/2	Tutorial : AutoCAD + Illustrator Assignment 3 Due
Fri.	4/5	Tutorial : AutoCAD + Photoshop

<i>Week 5 : Illustrative Section</i>		
Tue.	4/9	Tutorial : AutoCAD + Illustrator Assignment 4 Due .
Fri.	4/12	Tutorial : AutoCAD + Photoshop

<i>Week 6 : Diagrams + Project Booklet</i>		
Tue.	4/16	Tutorial : Diagrams Assignment 5 Due
Fri.	4/19	Booklet Tutorial as needed

<i>Week 7 : Final Presentation</i>		
Tue.	4/23	Work Session
Fri.	4/26	Final Presentation, Assignment 6 Due

\*The detailed schedule above is tentative and may change as the course develops