



## 2017 SUMMER INSTITUTES

*Summer Institute course offerings are restricted to incoming graduate students at the School of Design. These courses are not open to other students at the University. Each course requires a permit in order to enroll. Permit contact details are included with each course description.*

### **ARCHITECTURE**

ARCH-500-920 ARCH Summer Preparatory Design Studio

Special Session: 6/26/17 – 8/11/17 (note: University closed 7/4/16 Independence Holiday)

Meeting Pattern: Monday through Friday – 2:00pm to 6:00pm

Instructor: Larry Mitnick

Description: **2 course units.** Studio. The Summer Preparatory Studio offers an intensive drawing and design experience to candidates for admission to the Graduate Program in Architecture who have not completed the necessary design studio prerequisites or who are required to have additional design experience to qualify for matriculation into the Master of Architecture Professional Degree Program in September. Enrollment in this program does not count towards the Master of Architecture degree. The intent of the drawing component of the course is to familiarize the student with primarily black and white mediums (pencil, charcoal, ink, etc.). Exercises are designed to sharpen the student's ability to see selectively and to transform image to paper through both line and tonal renditions in freehand sketch form. Exercises will also familiarize the student with basic drafting skills necessary for architectural communication and provide an introduction to computer-aided design through applications of the intensive Rhino and Illustrator tutorials given in the Digital Navigation course. The design part of the course presents a rhythm of basic three-dimensional design studies and simple architectural studio investigations. These are intended to build fundamental skills and acquaint the student with the architectural issues of form/space, conceptualization, transformation of scale, simple functional and constructional problems and a sensitivity to context. Course enrollment is by permit only. Please contact Sarah Lam at [sarahlam@design.upenn.edu](mailto:sarahlam@design.upenn.edu).

Note: The cost of this course is 2 course units of tuition and general fees. The 2017-18 tuition and general fee rate per course unit for PennDesign is **TBA** (for 2cus: **TBA**). Billing for this course will follow the Student Financial Services billing schedule. The billing schedule is available online at: <http://www.sfs.upenn.edu/billing/billing-schedule.htm>.

ARCH-791-901 ARCH Summer Institute: Digiblast I Fundamentals of 3D Modeling

Special Session: 6/16/17 – 6/25/17

Meeting Pattern: Monday through Sunday – 10:00am to 5:00pm

Instructors: Ezio Blasetti and Danielle Willems

Description: Non-Credit. Studio. This is a non-credit course for entering Master of Architecture students. The course will cover digital modeling and workflow and will prepare students for techniques used in PennDesign's 500 and 600 level design studios. **Course fee: \$650.00.** Note: course fees applies only to students who are NOT enrolled in ARCH-500, in addition to ARCH-791. Course enrollment is by permit only. Please contact Sarah Lam at [sarahlam@design.upenn.edu](mailto:sarahlam@design.upenn.edu).

ARCH-792-901 ARCH Summer Institute: Digiblast II 3D Modeling and Fabrication

Special Session: 7/31/17 – 8/11/17

Meeting Pattern: Monday through Friday – 10:00am to 5:00pm

Instructors: Ezio Blasetti and Danielle Willems

Description: Non-Credit. Studio. **Course Fee: \$750.00.** This is a non-credit course for entering Master of Architecture students. The course will cover digital modeling and workflow. The course will prepare students for techniques used in PennDesign's 500 and 600 level design studios. Course enrollment is by permit only. Please contact Sarah Lam at [sarahlam@design.upenn.edu](mailto:sarahlam@design.upenn.edu).

ARCH-793-901 ARCH Summer Institute: History of Architecture

Summer Session Two: 6/29/17 – 8/4/17 (*note: University closed 7/4/16 Independence Holiday*)

Meeting Pattern: Monday through Friday – 9:00am to 11:00am

Instructor: Kevin Berry

Description: Non-Credit. Lecture. **Course Fee: \$750.00.** This is a non-credit course for entering Master of Architecture students. The course will cover western architecture from ancient Egypt to the modern age and will satisfy the history pre-requisite condition for matriculation in the fall. Course enrollment is by permit only. Please contact Sarah Lam at [sarahlam@design.upenn.edu](mailto:sarahlam@design.upenn.edu).

ARCH-794-901 ARCH Summer Institute: Physics for Architects

Summer Session Two: 6/29/17 – 8/4/17 (*note: University closed 7/4/16 Independence Holiday*)

Meeting Pattern: Monday, Wednesday and Thursday – 12:00pm to 1:30pm

Instructor: Richard Farley

Description: Non-Credit. Lecture. **Course Fee: \$750.00.** This is a non-credit course for entering Master of Architecture students. The course will cover the following: mechanics, heat, light, sound and electricity. The course will satisfy the physics pre-requisite condition for matriculation in the fall. Course enrollment is by permit only. Please contact Sarah Lam at [sarahlam@design.upenn.edu](mailto:sarahlam@design.upenn.edu).

ARCH-795-901 ARCH Summer Institute: Advanced Architectural Design Digital Workshop

Special Session: 8/14/17 – 8/18/17

Meeting Pattern: Monday through Friday – 9:00am to 5:00pm

Instructors: Ezio Blasetti and Danielle Willems

Description: Non-Credit. Studio. **Course Fee: \$575.00.** This is a non-credit course for entering Master of Science in Design: Advanced Architectural Design concentration. The Digital Methods workshop provides a comprehensive introduction to four elements critical to the workflow of the graduate studios at PennDesign: 3D modeling, scripting, visualization and fabrication. Short daily lectures situating digital technologies in contemporary design practice are followed by hands-on tutorials in Maya and Rhinoceros. The first half of the workshop provides an operative knowledge of the many geometry types, modeling techniques, scripting languages and simulation tools available for studio work. Visualization techniques are also introduced, and students will learn to efficiently produce presentation-quality renderings, animations and technical line drawings from digital models. Students also learn protocols transferring data between various design software packages and how to for create data compatible with PennDesign's digital fabrication equipment. Course enrollment is by permit only. Please contact Sarah Lam at [sarahlam@design.upenn.edu](mailto:sarahlam@design.upenn.edu).

### **CITY PLANNING**

CPLN-791-901 CPLN Summer Institute: Spreadsheet Review

Special Session: 8/14/17 – 8/18/17

Meeting Pattern: Monday through Thursday – 11:30-12:30pm

Instructor: John Landis

Description: Non-Credit. Excel for Planners: use of Excel to develop simple planning indicators (e.g. location quotients), simple planning models (e.g., fiscal impact models), and database operations. Course enrollment is by permit only. Please contact Roslynne Carter at [roslynne@design.upenn.edu](mailto:roslynne@design.upenn.edu).

CPLN-792-901 CPLN Summer Institute: Statistics

Special Session: 8/14/17 – 8/24/17

Meeting Pattern: Monday through Thursday – 8:30am to 10:00am

Instructor: Eugene Brusilovskiy

Description: Non-Credit. Basic Statistics for Planners: review of descriptive and basic inferential statistics, including z-scores, confidence intervals, t-tests, and chi-squared. Course enrollment is by permit only. Please contact Roslynne Carter at [roslynne@design.upenn.edu](mailto:roslynne@design.upenn.edu).

CPLN-793-901 CPLN Summer Institute: Computer Methods Computer Graphics (Group A)

Special Session: 8/14/17 – 8/18/17

Meeting Pattern: Monday through Thursday – 4:00pm to 5:30pm

Instructor: Benjamin Bryant

Description: Non-Credit. Introduction to Presentation and Report Graphics for Planners: including one day each on Photoshop, Illustrator, Sketchup, and InDesign. Course enrollment is by permit only. Please contact Roslynne Carter at [roslynne@design.upenn.edu](mailto:roslynne@design.upenn.edu).

CPLN-793-902 CPLN Summer Institute: Computer Methods Computer Graphics (Group B)

Special Session: 8/21/17 – 8/24/17

Meeting Pattern: Monday through Thursday – 4:00pm to 5:30pm

Instructor: Benjamin Bryant

Description: Non-Credit. Introduction to Presentation and Report Graphics for Planners: including one day each on Photoshop, Illustrator, Sketchup, and InDesign. Course enrollment is by permit only. Please contact Roslynne Carter at [roslynne@design.upenn.edu](mailto:roslynne@design.upenn.edu).

CPLN-794-901 CPLN Summer Institute: Microeconomics Review

Special Session: 8/14/17 – 8/24/17

Meeting Pattern: Monday through Thursday – 10:15am to 11:15am

Instructor: John Landis

Description: Non-Credit. Micro-econ Review: review of principles of supply and demand, elasticities, equilibrium prices and quantities. Course enrollment is by permit only. Please contact Roslynne Carter at [roslynne@design.upenn.edu](mailto:roslynne@design.upenn.edu).

CPLN-795-901 CPLN Summer Institute: Introduction to GIS (Group A)

Special Session: 8/14/17 – 8/24/17

Meeting Pattern: Monday through Thursday – 1:30pm to 3:30pm

Instructor: Kenneth Steif

Description: Non-Credit. The summer GIS Bootcamp prepares students for the intermediate GIS classes that begin in the fall semester. It begins with a discussion of GIS in planning and the social sciences and then moves on to topics related to spatial data, geocoding, projection, vector and raster-based geoprocessing, 3D visualization and more. Each class includes a brief lecture and a walk through involving actual planning related data. Course enrollment is by permit only. Please contact Roslynne Carter at [roslynne@design.upenn.edu](mailto:roslynne@design.upenn.edu).

CPLN-795-902 CPLN Summer Institute: Introduction to GIS (Group B)

Special Session: 8/14/17 – 8/24/17

Meeting Pattern: Monday through Thursday – 1:30pm to 3:30pm

Instructor: Staff

Description: Non-Credit. The summer GIS Bootcamp prepares students for the intermediate GIS classes that begin in the fall semester. It begins with a discussion of GIS in planning and the social sciences and then moves on to topics related to spatial data, geocoding, projection, vector and raster-based geoprocessing, 3D visualization and more. Each class includes a brief lecture and a walk through involving actual planning related data. Course enrollment is by permit only. Please contact Roslynne Carter at [roslynne@design.upenn.edu](mailto:roslynne@design.upenn.edu).

CPLN-799-901 CPLN Summer Institute: Introduction to the R Statistical System

Special Session: 8/21/17 – 8/24/17

Meeting Pattern: Monday through Thursday – 11:30am to 12:30pm

Instructor: TBA

Description: Non-Credit. This one-week short course will introduce students to the basics of the R statistical programming language, including importing and setting up data, using the R interface to conduct descriptive data analysis, and basic model-building procedures.

### ***HISTORIC PRESERVATION***

HSPV-790-901 HSPV Summer Institute: First-Year Historic Preservation Workshop

Special Session: 8/14/17 – 8/24/17

Meeting Pattern: Monday through Friday – 9:00am to 5:00pm

Instructor: Randall Mason

Description: Non-Credit. The Workshop is an orientation course designed to prepare incoming, first-year graduate students for the intense coursework of their first semester. Generally, the workshop orients students to the issues and methods of the core MSHP curriculum, begins familiarizing students to the resources of Philadelphia, and begins skill-building exercises. The workshop employs lectures, exercises, and fieldtrips to introduce some of the important skills, questions, and issues that will be at the center of first year's work in the Program.

Documentation, descriptive analysis of buildings and places, and critical historiography are particular emphases. The Workshop also constitutes an extended introduction to the Program's faculty and the students in first-year and second-year cohorts. Course enrollment is by permit only. Please contact the HSPV Dept. at [pennhspv@design.upenn.edu](mailto:pennhspv@design.upenn.edu).

### ***LANDSCAPE ARCHITECTURE***

LARP-789-901 LARP Summer Institute: Introduction to Design Language (*3-year students*)

Special Session: 7/31/17 to 8/4/17

Meeting Pattern: Monday through Friday – 9:00am to 5:00pm

Instructor: Rebecca Popowsky

Description: Non-Credit. **Course Fee: \$500.00.** This one-week course is for entering three-year MLA students who do not have a background in architectural, or landscape architectural design or related design fields. The workshop introduces students to architectural terminology, concepts and conventions, as well as to basic analog and digital drawing techniques, in order to bring all students to a minimum level of proficiency, prior to the start of the more intensive Summer Institute coursework. Exemption from this requirement will be granted upon request, based on academic record, professional experience and admissions portfolio. Course enrollment is by permit only. Please contact Darcy Van Buskirk at [darcyv@design.upenn.edu](mailto:darcyv@design.upenn.edu).

LARP-790-901 LARP Summer Institute: Natural Systems (*3-year students*)

Special Session: 8/7/17 to 8/11/17

Meeting Pattern: Monday through Friday – 9:00am to 5:00pm

Instructors: Sarah Willig and Marie Hart

Description: Non-Credit. **Course Fee: \$500.00.** This five-day session for entering three-year MLA students will provide an introduction to the varied physiographic provinces and associated plant communities of the greater Philadelphia region. Through a review of available mapping and on-site study we will characterize and consider the connections between climate, geology, topography, hydrology, soils, vegetation, wildlife, and disturbance, both natural and anthropogenic. With a focus on plants students will begin to develop a familiarity with the local flora (native and non-native) including plant species identification, preferred growing conditions, and potential for use. Field trips will include visits to the Inner Coastal Plain and Piedmont. Course enrollment is by permit only. Please contact Darcy Van Buskirk at [darcyv@design.upenn.edu](mailto:darcyv@design.upenn.edu).

LARP-791-901 LARP Summer Institute: Landscape Operations (*3-year students*)

Special Session: 8/14/17 to 8/18/17

Meeting Pattern: Monday through Friday – 9:00am to 5:00pm

Instructor: Rebecca Popowsky

Description: Non-Credit. **Course Fee: \$500.00.** This one-week course, for entering three-year MLA students, introduces concepts and techniques for analyzing, representing, and operating on landform, the fundamental medium of landscape architecture. Students will learn representational and model-making techniques for conveying topography, and will describe a series of landscape interventions on a topographic surface. Through models and drawings, students will develop an appreciation for the spatial implications of landform, for landscape narrative, for the movement of water and people across the landscape, and for the operation of reshaping the ground. Fine Arts Library introduction. Course enrollment is by permit only. Please contact Darcy Van Buskirk at [darcyv@design.upenn.edu](mailto:darcyv@design.upenn.edu).

LARP-792-901 LARP Summer Institute: Introduction to Digital Media (*3-year students*)

Special Session: 8/21/17 to 8/24/17

Meeting Pattern: Monday through Thursday – 9:00am to 6:00pm

Instructor: Abdallah Tabet

Description: Non-Credit. **Course Fee: \$500.00.** This week long introductory course is intended to enable students to orient themselves to digital media facilities, programs, and workflows. The course is focused around daily projects building up to a final pinup. Each daily project illustrates a different set of work paths between digital programs, as well as teaches students how to use different software applications key to the practice of landscape architecture today. The focus of this course is to enable students to understand what each digital software application offers to the landscape process, and how to build change and iteration into digital workflows. Course enrollment is by permit only. Please contact Darcy Van Buskirk at [darcyv@design.upenn.edu](mailto:darcyv@design.upenn.edu).

LARP-793-901 LARP Summer Institute: Landform and Grading Workshop (*2-year students*)

Special Session: 8/7/17 to 8/11/17

Meeting Pattern: Monday through Friday – 9:00am to 5:00pm

Instructor: Cora Olgay

Description: Non-Credit. **Course Fee: \$500.00.** The reading and shaping of landform is an elemental tool in the practice of landscape architecture. The act of grading design - the shaping and sculpting of landform - is both art and science. This five-day session for entering two-year MLA students aims to provide an appreciation of landform as both an evocative component in the design vocabulary and as a critical tool in resolving difficult design problems. Basic techniques and strategies of grading design are introduced and reinforced, so that grading design becomes an integral part of the student's design approach. This session is intended to provide a concise overview of the principles and process of landform and grading design, and is designed to prepare the entering two-year students for Workshop III. Course enrollment is by permit only. Please contact Darcy Van Buskirk at [darcyv@design.upenn.edu](mailto:darcyv@design.upenn.edu).

LARP-794-901 LARP Summer Institute: Natural Systems (*2-year students*)

Special Session: 8/14/17 – 8/18/17

Meeting Pattern: Monday through Friday – 9:00am to 5:00pm

Instructors: Sarah Willig and Marie Hart

Description: Non-Credit. **Course Fee: \$500.00.** This five-day session for entering two-year MLA students will provide an introduction to the varied physiographic provinces and associated plant communities of the greater Philadelphia region. Through a review of available mapping and on-site study we will characterize and consider the connections between climate, geology, topography, hydrology, soils, vegetation, wildlife, and disturbance, both natural and anthropogenic. With a focus on plants students will begin to develop a familiarity with the local flora (native and non-native) including plant species identification, preferred growing conditions and potential for use. Field trips will include visits to the Coastal Plain and Piedmont of New Jersey and Pennsylvania. Course enrollment is by permit only. Please contact Darcy Van Buskirk at [darcyv@design.upenn.edu](mailto:darcyv@design.upenn.edu).

LARP-795-901 LARP Summer Institute: Computing Intro to PennDesign & Academic Writing (2-year students)

Special Session: 8/21/17 to 8/24/17

Meeting Pattern: Monday through Thursday – 9:00am to 6:30pm

Instructors: Keith Vandersys and William Fleming

Description: Non-Credit. **Course Fee: \$500.00.** This four-day session introduces the entering two-year MLA students to the facilities of digital media as the primary mode of design visual communication. The course provides a short, yet intensive, hands-on inquiry into the production and expression of digital media that is essential for all designers. Through a series of working labs, students learn various software applications and associated techniques to execute precise two-dimensional representations of three-dimensional concepts. Students also learn the PennDesign systems, network basics and computer lab procedures. The academic writing workshop aims to provide incoming students with the tools necessary to engage with those resources and to develop their own voice as scholars of landscape architecture. The academic writing workshop will consist of three tutorial-based lectures and three collaborative assignments. Course enrollment is by permit only. Please contact Darcy Van Buskirk at [darcyv@design.upenn.edu](mailto:darcyv@design.upenn.edu).

### ***Billing Information***

Course fees for Architecture and Landscape Architecture summer institutes will be applied to student's accounts daily beginning on May 22<sup>nd</sup> and throughout the summer. Students will not be charged until they are formally enrolled in the course. Students will receive an email confirmation from the Office of Student Services when the charge(s) have been applied to their account. The charges will be visible to students under "new activity" in the Penn.Pay system. The fee will be due during the next scheduled billing cycle. Student Financial Services billing schedule is available online at: <http://www.sfs.upenn.edu/billing/billing-schedule.htm>. Questions regarding billing for summer institutes should be directed to the PennDesign Office of Student Services at: [registrar@design.upenn.edu](mailto:registrar@design.upenn.edu).