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.

ARCH-500-920 ARCH Summer Preparatory Design Studio
Special Session: 6/29/15 to 8/14/2015 (note: University closed 7/3-4/15 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 Leigh Anne Scarborough (ARCH Dept.) at lascarbo@design.upenn.edu.

Note: The cost of this course is 2 course units of tuition and general fees. The 2015-16 tuition and general fee rate per course unit for PennDesign is $6,146.00 (for 2cus: $12,292.00). 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: 6/19/15 to 6/28/15
Meeting Pattern: Friday 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: $550.00.** 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 Leigh Anne Scarborough (ARCH Dept.) at lascarbo@design.upenn.edu.
ARCH-792-901 ARCH Summer Institute: Digiblast II
Special Session: 8/3/15 to 8/14/15
Meeting Pattern: Monday through Friday – 10:00am to 5:00pm
Instructors: Ezio Blasetti and Danielle Willems
Description: Non-Credit. Studio. **Course Fee: $550.00.** 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 Leigh Anne Scarborough (ARCH Dept.) at lascarbo@design.upenn.edu.

ARCH-793-901 ARCH Summer Institute: History of Architecture
Summer Session Two: 7/2/15 to 8/7/15 (**note: University closed 7/3-4/15 Independence Holiday**)
Meeting Pattern: Monday through Friday – 9:00am to 11:00am
Instructor: TBA
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 Leigh Anne Scarborough (ARCH Dept.) at lascarbo@design.upenn.edu.

ARCH-794-901 ARCH Summer Institute: Physics for Architects
Summer Session Two: 7/2/15 to 8/7/15 (**note: University closed 7/3-4/15 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 Leigh Anne Scarborough (ARCH Dept.) at lascarbo@design.upenn.edu.

ARCH-795-901 ARCH Summer Institute: Post-Professional Design Workshop
Special Session: 8/17/15 to 8/21/15
Meeting Pattern: Monday through Friday – 9:00am to 5:00pm
Instructors: Ezio Blasetti and Danielle Willems
Description: Non-Credit. Studio. **Course Fee: $400.00.** This is a non-credit course for entering Master of Architecture: Post-Professional students. 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 Leigh Anne Scarborough (ARCH Dept.) at lascarbo@design.upenn.edu.
CPLN-791-901 CPLN Summer Institute: Spreadsheet Review
Special Session: 8/11/15 to 8/20/15 (no course meeting on 8/19/15)
Meeting Pattern: Monday, Tuesday, Thursday and Friday – 9:00am to 10:00am
Instructor: TBA
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 (CPLN Dept.) at roslynne@design.upenn.edu.

CPLN-792-901 CPLN Summer Institute: Statistics
Special Session: 8/10/15 to 8/20/15 (no course meeting on 8/19/15)
Meeting Pattern: Monday through Friday – 11:30am to 12:30pm
Instructor: TBA
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 (CPLN Dept.) at roslynne@design.upenn.edu.

CPLN-793-901 CPLN Summer Institute: Computer Methods Computer Graphics (Group A)
Special Session: 8/10/15 to 8/20/15
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 (CPLN Dept.) at roslynne@design.upenn.edu.

CPLN-793-902 CPLN Summer Institute: Computer Methods Computer Graphics (Group B)
Special Session: 8/10/15 to 8/20/15
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 (CPLN Dept.) at roslynne@design.upenn.edu.

CPLN-794-901 CPLN Summer Institute: Microeconomics Review
Special Session: 8/10/2015 to 8/20/15 (no course meeting on 8/19/15)
Meeting Pattern: Monday, Thursday, and Friday – 10:15am to 11:15am
Instructor: TBA
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 (CPLN Dept.) at roslynne@design.upenn.edu.

CPLN-795-901 CPLN Summer Institute: Introduction to GIS
Special Session: 8/10/15 to 8/20/15
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 (CPLN Dept.) at roslynne@design.upenn.edu.
CPLN-797-901 CPLN Summer Institute: Writing for International Students
Special Session: 8/10/15 to 8/14/15
Meeting Pattern: Monday through Thursday – 4:00pm to 5:30pm
Instructor TBA
Description: Non-Credit. Over the course of four sessions, this brief mini-course will use lecture and hands-on approaches to introduce international students on how to: 1) how to assemble on-line and published resources for use as resource materials in writing research papers; 2) how to structure social science and academic research papers; 3) how to present research paper argument and propositions; and 4) how to write professional "action" memoranda. Nightly homework will be required. This course is required of all entering international MCP students for whom English is not their native language. This requirement may be waived for students who submit multiple writing examples in English subsequent to their admission. Course enrollment is by permit only. Please contact Roslynne Carter (CPLN Dept.) at roslynne@design.upenn.edu.

CPLN-798-901 CPLN Summer Institute: Public Speaking for International Students
Special Session: 8/17/15 to 8/20/15
Meeting Pattern: Monday through Thursday – 4:00pm to 5:30pm
Instructor: TBA
Description: Non-Credit. Over the course of four sessions, this brief mini-course will use lecture and hands-on approaches to provide students with experience in making two types of public presentations: a) Technical presentations of technical, quantitative, and graphic information using PowerPoint and other graphic media; and, 2) Argumentative presentations in which students’ verbally present propositions and supportive evidence. Each student will make two presentations drawing on material and assignments provided in the course. This course is required of all entering international MCP students for whom English is not their native spoken language. Course enrollment is by permit only. Please contact Roslynne Carter (CPLN Dept.) at roslynne@design.upenn.edu.

HSPV-790-901 HSPV Summer Institute: First-Year Historic Preservation Workshop
Special Session: 8/17/15 to 8/21/15
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 Suzanne Hyndman (HSPV Dept.) at hyndman@design.upenn.edu.

LARP-790-901 LARP Summer Institute: Drawing and Measure
Special Session: 8/3/15 to 8/7/15
Meeting Pattern: Monday through Friday – 9:00am to 5:00pm
Instructors: Nicholas Pevzner and Marie Hart
Description: Non-Credit. Course Fee: $500.00. This one-week course, for entering three-year MLA students, introduces the fundamental tools and techniques of hand drawing for landscape architects. Exercises will range from architectural drafting and measured site observation, to constructed section and projective landscape imagination. The class will instruct students in the fundamental concepts of scale, measure, graphic hierarchy, line and texture, and explore the representation of geology, built form and vegetation. Students will begin to develop a visual vocabulary and become familiar with representational methods and techniques that they will continue to explore throughout the Summer Institute and into the fall semester. Course enrollment is by permit only. Please contact Darcy Van Buskirk (LARP Dept.) at darcyv@design.upenn.edu.
LARP-791-901 LARP Summer Institute: Landscape Operations
Special Session: 8/10/15 to 8/14/15
Meeting Pattern: Monday through Friday – 9:00am to 5:00pm
Instructors: Nicholas Pevzner and 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. Course enrollment is by permit only. Please contact Darcy Van Buskirk (LARP Dept.) at darcyv@design.upenn.edu.

LARP-792-901 LARP Summer Institute: Natural Systems (3-year students)
Special Session: 8/17/15 to 8/21/15
Meeting Pattern: Monday 9:00am to 12noon and Friday 9:00am to 2:00pm
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 (LARP Dept.) at darcyv@design.upenn.edu.

LARP-793-901 LARP Summer Institute: Computing Introduction and Academic Writing
Special Session: 8/3/15 to 8/7/15
Meeting Pattern: Monday through Friday 9:00am to 5:00pm
Instructors: Keith Vandersys and William Fleming
Description: Non-Credit. **Course Fee: $500.00.** This 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. Course enrollment is by permit only. Please contact Darcy Van Buskirk (LARP Dept.) at darcyv@design.upenn.edu.

LARP-794-901 LARP Summer Institute: Natural Systems (2-year students)
Special Session: 8/10/15 to 8/14/15
Meeting Pattern: Monday 8:00am to 12noon and Friday 8:00am to 2:00pm
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 (LARP Dept.) at darcyv@design.upenn.edu.
LARP-795-901 LARP Summer Institute: Landform and Grading Workshop
Special Session: 8/17/15 to 8/21/15
Meeting Pattern: Monday through Friday – 9:00am to 5:00pm
Instructor: Cora Olgyay
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 (LARP Dept.) at darcyv@design.upenn.edu.

**Billing Information**

Course fees for Architecture and Landscape Architecture summer institutes will be applied to student’s accounts on the first day of the course. The charges will be visible to students under “new activity” in the Penn.Pay system the next day. 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](http://www.sfs.upenn.edu/billing/billing-schedule.htm). Questions regarding billing for summer institutes should be directed to Andrea Porter, PennDesign Registrar at anporter@design.upenn.edu.