
Extended Education
Fall 2019

– Look to the Future
– Build Your Skills
– Advance Your Career

Classes begin September 4!

Non-Credit Courses:
Architecture, Engineering, Construction, Decorating

Professional Certificate Programs:
AR VR: Unity, AutoCAD, General Contracting & Construction Standards, Interior Decorating, Revit

Personal Enrichment:
Career Development, Dance, Driver’s Ed, Energy Contracts, Project Management, Leadership and Writing Development, Marketing, Real Estate Development

Online Self-Study:
Architectural/Design History

Custom Corporate Training

nyit.edu/exted
Excel Personally and Professionally

NYIT’s Extended Education provides you with professional training in architecture, AutoCAD, engineering, heavy equipment, interior decorating, project management, REVIT and more. Many of these courses can be used for continuing education credit and/or help you prepare for professional licensure.

We also offer enrichment courses in career networking, driver education, culture and history. Courses are offered at convenient times and affordable rates at locations in the New York metropolitan area.

Discover how our courses and programs can extend your skillset and help you excel professionally and personally. To connect with a counselor, call 516.686.7490 or visit nyit.edu/exted.

Corporate Training

Our courses can provide new skills and knowledge to your organization’s workforce. In return, you’ll have trained employees who are satisfied and perform better. We offer custom programs in AutoCAD, business, engineering, and interior design, among other areas. Courses may be conducted at your facility or at our campuses in Long Island and New York City.

To find out how we can help with your corporate training needs, call 516.686.7491 or email jknowles@nyit.edu.

New This Fall!

For Recent Graduates
How to Transition from Graduate to Employee, see page 19.

For Professionals
Basic Real Estate Development, see page 25
The Evolution of Telecommunications, see page 20
Service Operations Leadership & Effective Writing Techniques, see pages 23 and 25.
Energy Contracts & Financing, see page 20.
Technical Writing, see page 25.
General Contracting and Construction Standards Certificate, see page 9.

For Interior Decorators
Revit and Interior Design, see page 9.

For Architects & Engineers
Imagineering: The Making of Walt Disney World, see pages 10 and 21.
Smart Building and IT Integration, see page 20

For Managers and Directors
Service Operations Leadership, see page 23.
Basic Project Management, see page 24
Social Media Marketing Overview & Paid Social Media Advertising Campaigns, see page 24.

For Everyone
Effective Writing Skills, see page 25.

Campuses

NYIT offers extended education courses on both of its New York campuses: New York City (Manhattan) and Long Island (Old Westbury, N.Y.)
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Noncredit Professional Certificate Programs

Certificate: AR/VR: Unity
The AR/VR (augmented/virtual reality) Unity three-module certificate program at NYIT-New York City is offered through the HIVE, NYIT’s research lab and hub for AR/VR production. This program leverages the core of game development technology and UX/UI design to provide students with AR/VR (virtual/augmented reality) production skills sought by current and emerging creative and technology organizations. Each 15-hour (three-week) module features bootcamp-style classes that provide skills in AR/VR and the Unity game engine that can be applied to a Unity Certification class. If preferred, students may use their own laptops. All coursework is taught by a Unity certified instructor.

**XCMP-081 Introduction to Unity**
*Section M01 (New York City) Saturdays: September 14, 21, 28; 10 a.m. – 3 p.m.*
Validate your knowledge of foundational game design and programming skills against a benchmark of proficiency for game production with Unity. This class will cover many of the topics in the Unity Certification Exam. No matter what your target platform (screen, mobile, web, VR or AR), Unity allows you to build interactive experiences for all of them. Unity developers are in great demand; one of the best ways to distinguish yourself is to become certified as a developer. Software used: Unity, C#, Game Design, Physics. **Fee: $995**

**XCMP-082 Asset Creation and Manipulation/Pipeline Development**
*Section M01 (New York City) Saturdays: October 5, 19, 26; 10 a.m. – 3 p.m.*
This course introduces you to the creation, acquisition, manipulation, and implementation of assets for use in AR/VR immersive experiences. Tools for the creation of characters, organic and hard surface models, 3-D scanning, and sculpting will be introduced. Students learn how to manipulate assets acquired from online resources to work within their development environments. With each new type of asset there is a new set of requirements for how the data is moved from one piece of software to the other to develop a data pipeline. You will be introduced to pipeline development to pass data along the software chain. Software used: Maya, Medium, Google Blocks/Poly, Houdini. **Fee: $995**

**XCMP-083 AR/VR, 360 Storytelling, and UX/UI**
*Section M01 (New York City) Saturdays: November 9, 16, 23; 10 a.m. – 3 p.m.*
This course introduces a range of the latest AR experience development tools and skills, 360 video storytelling development technique, and UX/UI (user experience/user interface) design principles. Learn how to implement user experience, interface, and interaction design with AR and VR. Software used: Vuforia, Google Poly, Blocks, Tour Creator, Snapchat Lens Studio, Wonda VR, AWS. **Fee: $995**

Certificate: AutoCAD 2020
This certificate is designed to build job mastery for the practicing construction professional, architect, designer, engineer, programmer, or technician. The courses presume no background in AutoCAD; those who enroll are expected to have basic computer skills and knowledge of the basic principles of drafting. To earn the certificate, you must complete all four courses, which may be taken in different semesters. Courses also may be
taken individually for skill enhancement. Courses are conducted on a Windows PC environment.

*NOTE: These courses are registered and approved by the AIA for professional continuing education, but are not approved for license renewal by the New York state licensing board for non-HSW credit. All classes must be attended for CES credit.

**XCAD-023 AutoCAD Level I**

**Section: W01 (Long Island)**
Tuesdays: September 10, 17, 24, October 1, 15, 22; 6 – 9 p.m.

**Section: M01 (New York City)**
Wednesdays: September 11, 18, 25, October 2, 9, 16

During this hands-on course, use AutoCAD 2020 and learn about the tools and techniques necessary to complete and edit production drawings using basic 2-D commands.

**Fee:** $475

**XCAD-024 AutoCAD Level II Part A**

**Section: W01 (Long Island)**
Tuesdays: November 5, 12, 19, 26, December 3, 10

**Section: M01 (New York City)**
Wednesdays: October 30, November 6, 13, 20, December 4, 11

In this intermediate course, use AutoCAD 2020 and expand on basic 2-D commands to refine and edit production drawings. **Fee:** $475

**XCAD-025 AutoCAD Level II Part B**

**Section: W01 (Long Island)**
Thursdays: September 12, 19, 26, October 3, 10, 17

**Section: M01 (New York City)**
September 10, 17, 24, October 1, 15, 22

As a continuation of AutoCAD 2020 Level II Part A, this course expands your knowledge of advanced 2-D commands to increase your customizing ability and productivity. **Fee:** $475

**XCAD-026 AutoCAD III: 3-D Modeling and Rendering**

**Section: W01 (Long Island)**
Thursdays: October 24, November 7, 14, 21, December 5, 12; 6 – 9 p.m.

**Section: M01 (New York City)**
Tuesdays: November 5, 12, 19, 26, December 3, 10; 6 – 9 p.m.

Using AutoCAD 2020, use 3-D commands to create and use drawing planes. Gain skills to render surface and solid models. **Fee:** $475

**Certificate: Revit Architecture 2020**

This certificate is designed to build job mastery for the practicing construction professional, architect, designer, engineer, programmer, or technician. The courses presume no background in Revit; those who enroll are expected to have basic computer skills and knowledge of the basic principles of drafting. To earn the certificate, you must complete all three courses, which may be taken in different semesters. Courses also may be taken individually for skill enhancement.

**XCAD-029 Introduction to Revit**

**Section: W01 (Long Island)**
Saturdays: September 14, 21, 28, October 5, 19, 26; 9:30 a.m. – 12:30 p.m.

**Section: M01 (New York City)**
September 12, 19, 26, October 3, 10, 17

As green building goes mainstream, government leaders are asking for tools that set minimum standards for green building. Building information modeling (BIM) is changing the way buildings are designed and constructed. Revit is the first tool you will reach for in your toolbox. This hands-on course introduces you to Revit fundamentals, features, and tools, including: documentation history and trends; project templates; user interface and project workflow; and content provided out of the box. **Fee:** $475

**XCAD-032 Intermediate Revit**

**Section: W01 (Long Island)**
Saturdays: November 2, 9, 16, 23, December 7, 14; 9:30 a.m. – 12:30 p.m.

**Section: M01 (New York City)**
Thursdays: October 24, November 7, 14, 21, December 5, 12; 6 – 9 p.m.

Explore the BIM aspects of Revit architecture. This hands-on course covers topics such as: families and their components; creating, organizing, and utilizing different views; section elevations and perspectives; and schedules and project phasing tools as well as working from a sketch to create a massing study; dimensioning (temporary and permanent); stairs, ramps and railings; creating rooms and color fill patterns; and detailing and annotation. **Fee:** $475

*Satisfies HSW requirements*
XCAD-035 Advanced Autodesk Revit Architecture

Section: W01 (Long Island) Saturdays: September 14, 21, 28, October 5, 19, 26; 1 – 4 p.m.
Section: M01 (New York City) September 17, 24, October 1, 15, 22, 29

This course introduces you to more advanced concepts in Autodesk Revit software, the AEC industry’s first parametric building modeler. Using Revit Beginner and Intermediate as our foundation, we will explore advanced functions. Topics include working with multiple Revit and AutoCAD files as links; implementing techniques using system families such as walls, floors, ceilings, and roofs; custom family creation and in-place families; advanced scheduling functions; and best practices (performing quality control on your BIM project). Prerequisite: Intermediate Revit. Fee: $475

Certificate/Advanced Certificate: Interior Decoration

Looking for a new career as an interior decorator? Upon completion of eight 10-week courses (five required and three electives), earn a certificate in interior decoration and get started! The required courses are XDSG-001, XDEC-001, XDEC-002, XDEC-005 and XFSH-014. Two 5-week electives or one 10-week elective fulfill one elective requirement. Upon completion of required coursework, you must apply for the certificate. An advanced certificate in interior decoration requires successful completion of 12 (10-week) courses. We recommend the courses be taken in order for best learning comprehension. You may also take individual courses for personal enrichment.

**Equipment is required: estimated cost is $125 (not included in cost of course).**

XDSG-001 Design…Where It All Begins

Section: W01 (Long Island) Wednesdays: September 11, 18, 25, October 2, 16, 23, 30, November 6, 13, 20
Section: W02 (Long Island) Mondays: September 9, 16, 23, 30, October 7, 21, 28, November 4, 18, 25
Section: M01 (New York City) September 11, 18, 25, October 2, 16, 23, 30, November 6, 13, 20

This course introduces the fundamentals of interior decoration. Integration of form, color, and texture into a harmonious whole is at the core. Spatial and three-dimensional organization are covered as well. This is a project-oriented, “learn-by-doing” program.

Fee: $325

XDEC-001 Basic Drafting for Interior Decorators**

Section: W01 (Long Island) Mondays: September 9, 16, 23, 30, October 7, 21, 28, November 4, 18, 25
Section: W02 (Long Island) Wednesdays: September 11, 18, 25, October 2, 16, 23, 30, November 6, 13, 20
Section: M01 (New York City) Tuesdays: September 10, 17, 24, October 1, 15, 22, 29, November 12, 19, 26

Learn the methods and techniques of basic drafting and detailing for interior space planning, including how to execute scale, room plans, reflective ceiling plans, and elevations.

Prerequisite: XDSG-001. Fee: $325

XDEC-002 Interior Decorating and Applications I

Section: W01 (Long Island) Wednesdays: September 11, 18, 25, October 2, 16, 23, 30, November 6, 13, 20; 9:30 a.m. – noon
Section: W02 (Long Island) Mondays: September 9, 16, 23, 30, October 7, 21, 28, November 4, 18, 25; 6:30 – 9 p.m.
Section: M01 (New York City) Thursdays: September 12, 19, 26, October 3, 10, 17, 24, November 7, 14, 21; 6:30 – 9 p.m.

In this course, interior decoration skills are developed through a series of projects for simple interior spaces. Emphasis is placed on function, analysis, and space planning. You’ll begin to incorporate color, furniture, and finishing, while graphically representing the interior space.

Prerequisites: XDSG-001, XDEC-001. Fee: $325
XDEC-004 Kitchens and Baths
Section: W01 (Long Island) Mondays: September 9, 16, 23, 30, October 7, 21, 28, November 4, 18, 25; 9:30 a.m. – noon
Section: W02 (Long Island) Tuesdays: September 10, 17, 24, October 1, 15, 22, 29, November 12, 19, 26; 6:30 – 9 p.m.
In this course, you will be responsible for the actual development and execution of a kitchen and bathroom project. Issues to be addressed will include color, texture, function, lighting, and special considerations for kitchens and baths.
Prerequisite: XDEC-001. Fee: $325

XDEC-005 Business Practices for Interior Decorators
Section: W01 (Long Island) Mondays: September 9, 16, 23, 30, October 7, 21, 28, November 4, 18, 25; 9:30 a.m. – noon
Section: W02 (Long Island) Tuesdays: September 10, 17, 24, October 1, 15, 22, 29, November 12, 19, 26; 6:30 – 9 p.m.
Section: M01 (New York City) Thursdays: September 12, 19, 26, October 3, 10, 17, 24, November 7, 14, 21
Section F01 (online) Tuesdays: September 10, 17, 24, October 1, 15, 22, 29, November 12, 19, 26
An introduction to aspects involved in maintaining a successful interior decorating practice. Topics include contracts, legal responsibilities, fees, marketing, client interviewing, and professional organizations.
Fee: $325

XFSH-014 Fabrics and Materials
Section: W01 (Long Island) Wednesdays: September 11, 18, 25, October 2, 16, 23, 30, November 6, 13, 20; 9:30 a.m. – noon
Section: W02 (Long Island) Thursdays: September 12, 19, 26, October 3, 10, 17, 24, November 7, 14, 21; 6:30 – 9 p.m.
Section: M01 (New York City) Wednesdays: September 11, 18, 25, October 2, 16, 23, 30, November 6, 13, 20; 6:30 – 9 p.m.
An overview of materials used in the decorating process, with emphasis on fabrics. The use of basic materials such as upholstery, draperies and curtains, flooring, carpeting, wall covering, and paint will be discussed, as well as execution processes including measuring, ordering, installation, and maintenance.
Fee: $325

(NEW) XDEC-047 Carpets & Rugs
Section: M01 (New York City) Thursdays: October 24, 31, November 7, 14, 21; 6:30 – 9 p.m.
Learn carpet and rug basics and how to customize rugs in order to offer a unique product to your clients. Explore a variety of fibers and carpet and rug construction techniques and learn how to select the best type for the job. Review a variety of installation methods and learn how to work with vendors. Fee: $225

XDEC-038 Feng Shui and Healthy Living for Designers
Section: W01 (Long Island) Fridays: October 25, November 1, 8, 15, 22; 9:30 a.m. – noon.
By applying the ancient art of Feng Shui and green design basics, you will learn to choose healthy options for you, your clients, and the planet. Develop an awareness in order to select colors, shapes, textures, and accessories to uplift the energy in a space and enhance areas of life that need improving. On the last day of class, you will present a visual project.
Fee: $225

XDEC-029 Practical Decorating
Section: W01 (Long Island) Wednesdays: November 6, 13, 20, December 4, 11; 9:30 a.m. – noon
Section F01 (online) Wednesdays: September 11, 18, 25, October 2, 16; 9:30 a.m. – noon
Find out about the practical world of an interior decorator. All phases of a design job—including obtaining clients, determining and fulfilling their needs, and delivering the product—will be discussed. Fee: $225

*Satisfies HSW requirements
XDEC-027 The History of Furniture
Section: W01 (Long Island) Thursdays: September 12, 19, 26, October 3, 10, 17, 24, November 7, 14, 21; 9:30 a.m. – noon
Learn about the history of furniture from ancient Egypt and Greece, Western European countries, and China and Japan. See how the evolution of furniture has influenced today’s world of decorating. Fee: $325

XART-046 Color Workshop for Interior Decorators
Section: W01 (Long Island) Thursdays: June 6, 13, 20, 27, July 11; 10 a.m. – 12:30 p.m.
This course will explore the many aspects of color, such as psychological and emotional responses and different cultures and age groups’ relationships to color. Learn about the uses of color in various industries and the relationship of color to light and texture. This understanding will help you develop appropriate color schemes for clients. Fee: $225

XDEC-028 Window Fashions
Section: W01 (Long Island) Mondays: September 9, 16, 23, 30, October 7, 14, 21, 28, November 4, 18, 25; 9:30 a.m. – noon
Learn about proper specification, fabrication, and installation of soft and hard window fashions, with special emphasis on multi-layered treatments. Draperies, valances, cornices, swags and jabots, blinds, shutters, shades, and trimmings will be explored and defined. Special-challenge windows, such as bay, angled-top, and Palladian, are included. Receive instruction on how to balance practical and aesthetic factors in developing the best overall design solution. The use of real-life scenarios clarifies material covered. Fee: $325

XDEC-009 Resource Sampler Workshop
Section: W01 (Long Island) September 25, October 2, 9, 16, 23; 10 a.m. – 12:30 p.m.
Offering hands-on experience for students with a basic background in decorating, this course will consist of lectures and numerous field trips. Transportation and expenses for all field trips are the responsibility of the student. The first class will be held on campus; the remaining classes will be field trips. Fee: $225

XDEC-010 Accessories
Section: W01 (Long Island) Fridays: September 13, 20, 27, October 4, 11, 18
Section: M01 (New York City) Mondays: September 9, 16, 23, 30, October 7; 9:30 a.m. – noon
Accessories are essential in putting the finishing touches on any room. Topics include: the use of color in accessories and accent pieces; the importance of using the right artwork, flowers, collectibles, and pillows; and more. Fee: $225

XDEC-006 Lighting
Section: W01 (Long Island) Thursdays: September 12, 19, 26, October 3, 10, 17, 24, November 7, 14, 21; 9:30 a.m. – noon
Section: M01 (New York City) Wednesdays: September 11, 18, 25, October 2, 16, 23, 30, November 6, 13, 20; 6:30 – 9 p.m.
Proper lighting is vital to the success of an interior design. Types of artificial light, its location, quantity, color balance, lifespan, output, and other characteristics are topics we will examine. You will learn how to develop a lighting plan and specification schedule. A field trip to a lighting showroom may be included. Fee: $325
XCAD-023 AutoCAD for Interior Decorators
Section: W02 (Long Island) Thursdays:
September 12, 19, 26, October 3, 10, 17, 24, 31,
November 7, 14; 11:15 a.m. – 1:15 pm
Section: M01 (New York City) Wednesdays:
September 11, 18, 25, October 2, 9, 16; 6 – 9 p.m.
See course description on page 6. Fee: $475

XDEC-040 Basic Feng Shui
Section: M01 (New York City) Thursdays:
September 12, 19, 26, October 3, 10, 17, 24, 31,
November 7, 14; 10 a.m. – 12:30 p.m.
Section: M02 (New York City) Thursdays:
September 12, 19, 26, October 3, 10, 17, 24, 31,
November 7, 14; 6:30 – 9 p.m.
In this introduction to the principles of Feng Shui, you will learn how to apply basic corrections and adjustments. Included are: a general history; discussion of schools and methods of practice; and use of color, form, and materials. No prior experience is required. Fee: $325

XDEC-033 Space Planning: Residential
Section W01 (Long Island) Tuesdays:
September 10, 17, 24 October 8, 15, 22, 29,
November 5, 12, 19; 6:30 – 9 p.m.
Introduction to the historical development of interior decoration and design. Learn about space planning, including furniture layout in a residence, as well as analysis of color psychology in a living environment and preparation of a residential space plan project. Prerequisites: XDSG-001 and XDEC-001. Fee: $325

XCAD-038 Revit and Interior Design
Section: W01 (Long Island) Tuesdays:
September 10, 17, 24, October 1, 15, 22, 29,
November 5; 12:30 – 3 p.m.
Introduction to Revit for Interior Designers No previous experience in Revit is required as you receive a well-rounded, basic understanding of Revit tools and techniques for interior design. Class topics include: features and techniques, introduction to Autodesk 360 covering modeling of floor finishes, ceilings with soffits, casework, custom reception desk, restrooms, furniture and light fixtures; plotting project worksheets; and introduction to tags, schedules, and photo-realistic rendering. Fee: $445

Certificate: General Contracting and Construction Standards
XCST-060
Section: M01 (New York City) November 16, 23, December 7; 9 a.m. – 5:30 p.m.
Understand how a general contracting business operates and/or how to hire a general contractor or construction manager for a residential or commercial project. You will be able to put principles and theories into action on any construction-oriented project. This class offers:

1. a comprehensive approach to understanding the dynamics of the construction business, including how to: formulate a reputable company; review and prepare a business plan; participate in a bidding process; understand RFI, RFQ and RFP procedures; craft a proposal, purchase order, boilerplate contracts, and custom contracts; and use AIA contracts.

2. an understanding of contract administration and risk management, providing you with the ability to reduce legal costs and allow legal counselors to provide better contractual language to defend your company from lawsuits or defaults from clients.

3. knowledge and tools to develop project scheduling and planning protocols and procedures to monitor construction labor, materials, and profit margins.

This course is registered and approved for professional continuing education for architects and engineers for license renewal. All sessions must be attended for CE credit. Fee: $415

*Satisfies HSW requirements
Noncredit Courses

American Institute of Architects Continuing Education Series (AIA-CES) Professional Development for Architects

NYIT’s American Institute of Architects (AIA) Continuing Education Series includes topics critical to the contemporary practice of the profession. All offerings, registered and approved by the AIA for professional continuing education credits, are valid for meeting the requirements for AIA membership and state licensure.

(NEW) XARC-199 Imagineering: The Making of Walt Disney World*

Section: W01 (Long Island) Saturday: September 12; 9 a.m. – 6 p.m.
LUs: 8

When Walt Disney launched “The Florida Project” in 1963, little did he realize his ambitions for a Disneyland East would exceed even his grandiose ambition. The Super Disneyland made manifest in the fall of 1971 would be somewhat different than his original scheme. For example, phase II would open on October 1, 1982, as EPCOT Center—a “Permanent World’s Fair,” not the prototype “Community of Tomorrow” he envisioned. However, Walt Disney World would demonstrate to the world, in its initial construction (phase I), a very early example of sustainable design that, it was hoped, others would follow. Smog generating automobiles would be exiled to the park’s outskirts while clean, natural gas-powered trams would ferry the multitudes from the parking lots to the Magic Kingdom. A Swedish-designed refuse system would keep the park clean and a sludge sewage plant would put what would otherwise be waste to other, beneficial uses. A 600-acre experimental farm would test new methods for growing trees and a nature reserve consisting of thousands of pristine acres would preserve Florida’s natural heritage. Perhaps it is in this lesser-known way that Walter Elias Disney’s legacy is most enduring. Fee: $235

XARC-198 Jacobs II: FLW’s Passive Solar House

Section: FX01 (Self-Study Online)
LUs: 2

In this course, we will examine the history of one of the most important commissions of the long, prolific career of America’s master architect: Frank Lloyd Wright. We will review the origins of Wright’s “Usonian” houses originating in the mid-1930s (starting with the Jacobs I house in Madison, Wis.) through to the commission for the second Jacobs house (a/k/a “Jacobs II”) starting in 1942 through to its completion in 1948. This review will include an in-depth discussion of the many design features of the house that have resulted in it being recognized as the first passive solar residential design. Topics of discussion will include site selection, building orientation/shape, use of earthen berms, thermal massing, overhangs (for shading), glazing (for solar penetration), material selection, radiant-heat flooring, air-pressure differentials, convective loops etc. The legacy of the house to both passive and active solar design will be highlighted. Fee: $95

XARC-197 Different or Dysfunctional? Thom Mayne’s San Francisco Federal Building

Section: FX01 (Self-Study Online)
LUs: 2

In this course we will examine the controversial San Francisco Federal Building (SFBB) by prominent “machine aesthetic” architect Thomas Mayne of the architectural design firm Morphosis. Conceived as part of the General Service Administration’s Design Excellence program, the building was not initially conceived to achieve USGBC (U.S. Green Building Council) LEED (Leadership in Energy and Environmental Design), though energy efficiency was part of the GSA’s brief and one of the reasons Mayne’s design was selected. Ultimately, the building would receive a silver LEED certification (rather than the platinum rating it sought). In particular, we will focus on the controversial sustainable design features of the building, including the use of natural ventilation in lieu of a standard HVAC system (above the fifth floor), skip-stop elevator service (whereby only every third floor is served by the
main passenger elevators), and locating the employee cafeteria outside of the main building (in an adjoining plaza). We will also examine the result of a GSA report: Re-assessing Green Building Performance, which surveyed 22 federal office buildings nationwide (including the SFBB) and provided data on thermal comfort, lighting/acoustic quality, general workplace satisfaction, and more. We will try to understand why the SFBB scored in the lowest percentile/s in the aforementioned report areas. Fee: $95

XARC-195 FALLINGWATER: The Most Beautiful House in the World

Section: W01 (Long Island) Saturday: September 7; 9 a.m. – 6 p.m.

LUs:8

When Edgar Kaufmann, Jr., enrolled as an apprentice in the Taliesin Fellowship, Frank Lloyd Wright took notice of the young man. Wright knew that he was the son of Edgar Kaufmann, Sr., owner of the Pittsburgh-based Kaufmann’s Department Store, with deep pockets and a taste for both art and architecture. The two men knew of each other from a previous correspondence, but with Edgar at Taliesin the stage was set for the two great men to meet and discuss a weekend retreat on a wooded property the Kaufmann’s owned in southwest Pennsylvania. The result was “Fallingwater,” considered to be the finest example of Wright’s talent as an “Organic” architect, whereby the built and natural environment/s enhance one another. Perhaps the ultimate compliment is paid to Fallingwater by the many Japanese tourists who visit the house. They seem to have an intuitive and instantaneous understanding of Fallingwater’s “Grammar.” Considering Wright’s lifelong love of Japanese art and culture, it makes a lot of sense. After all, Wright’s ideal of “eliminating the insignificant” was, in fact, derived from the okiyo-e prints Wright collected/brokered and is omnipresent at Fallingwater. For the rest of us, Fallingwater’s director hit the nail-on-the-head when she inferred that Fallingwater is, basically, a treehouse and everybody has—at one time or another—fantasized about living in a treehouse. Fee: $235

XARC-193 Bridging the Hudson*

Section: FX01 (Self-Study Online)

LUs:8

This course will examine the creation of one of the world’s most important bridges – the George Washington Bridge, spanning the Hudson River between Fort Lee, New Jersey and Washington Heights in upper Manhattan. Our review will include an overview of the design/construction process which allowed the bridge to be built in phases. We will examine in great detail the creation of the four main cables of the bridge including materials, methods, systems, infrastructure requirements, equipment etc. used by the John Roebling’s Sons Company to create this all-important structural component of the bridge. As well, we will examine in detail the “Hudson Challenge” which will include both late nineteenth and early twentieth century plans for a Hudson River bridge at locations in lower and/or mid-Manhattan. Special focus will be on the suspension bridge schemes of Gustav Lindenthal, master bridge Designer/Engineer. Tangential to this, we will examine the life and career of Othmar H. Ammann — the designer and Chief Engineer of the George Washington Bridge. This will include his complex relationship with Lindenthal and his early and later career as a prominent bridge engineer in his own right. The successful application of “Deflection Theory,” as applied to the GWB’s design, will be of considerable interest and importance. Fee: $235

*Satisfies HSW requirements
XARC-194 Design Outlaws: Inventing the Future*
Section: FX01 (Self-Study Online)
LUs: 3
This course will examine the contributions made by individuals known as “Design Outlaws.” This will include an understanding of what it means to be defined as a Design Outlaw as it relates to technological invention/innovation. As well, the reaction to environmental problems/concerns in the 1960s and 1970s, resulting in the launching of the “Ecological Design” movement, will also be discussed/reviewed in depth and detail. In particular, we will focus on the contributions of some of the most important Design Outlaws of the 20th Century. Most prominent will be the life and work of R. Buckminster Fuller — futurist, inventor, philosopher and hero of the counterculture generation. We will examine his many contributions to “inventing the future,” including his “Dymaxion” car and house and his most successful design — the geodesic dome. Other individual Design Outlaws such as biologist John Todd, J. Baldwin and Stewart Brand will also be of great interest. Fee: $135

XARC-191 Levittown USA: Birthplace of Suburbia*
Section: W01 (Long Island) Saturday: October 5; 9 a.m. – 6 p.m.
LUs: 8
When Bill Levitt was a student at NYU, his favorite quote was: “the masses are asses.” Ironic when you consider the fact that, except for Henry Ford (HF), who put America on wheels, nobody in the 20th century did more to change the life of those masses, or “the great multitude” (as HF more politely referred to them), than did William Jaird Levitt. The suburban lifestyle many Americans enjoy today is due in large part to his vision of making the single-family home affordable to millions of Americans. He was an accidental hero, or villain, depending on your point-of-view, being in the right place at the right time to make manifest the first mass-produced American suburb. Levitt’s legacy as the “Father of Suburbia” remains firmly rooted in the soil of a Long Island potato field. Fee: $235

XARC-190 Rockefeller Center*
Section: W01 (Long Island) Saturday: September 21; 9 a.m. – 6 p.m.
LUs: 8
Conceived in the heyday of the 1920s economic boom but built in the depths of the Great Depression, critics scoffed at the idea of such a large commercial project, the largest ever conceived, saying it was a “profitless pit” for Rockefeller and his family fortune. They may have had a point in 1930, but by 1937, when these words were first put to music, Rockefeller Center had proved the skeptics wrong and indeed, the public and corporate America were rushing (if not fighting) to “get in.” Opened in 1932, Radio City Music Hall—with the world’s largest theater—had become the “Showplace of the Nation” while the annual lighting ceremony of the communal Christmas tree in front of 30 Rock (a tradition established by the construction workers) remains the focus of the holiday season in the Big Apple, attracting tourists and native New Yorkers alike. Fee: $235

XARC-188 Boeing 747*
Section: FX01 (Self-Study Online)
LUs: 12
This course will examine the history of the development of one of the most produced and influential commercial aircraft of the 20th Century: the 747-100 “Jumbo Jet.” We will review the need for a sub-sonic jet with greater comfort, convenience, range, and capacity by the mid-1960s (after the launching of the commercial “Jet Age”) with the introduction of the Boeing 707 in 1958 – the first jet airliner offering regular trans-Atlantic service. The role of the 747 as an interim (a/k/a “stop-gap”) aircraft to fill the void between the first generation jet airliners (sub-sonic) and second generation (super-sonic) and the series of events that led to the cancellation of the Boeing SST and rise to prominence of the 747 We will discuss the history of the Boeing company itself. from its inception in 1916 through to the present day and the rise of commercial aviation in the inter- and post-war years it will provide historical context for the creation of the first 747 and latter-day variants. Also, we will discuss in depth and detail the infrastructure and technologies used in the development of the 747 as an entirely new aircraft: conceived, designed, and produced in a twenty-nine month time frame. This will include the development from scratch of the Everett, Washington wide-body facility and the production techniques used to manufacture and test wide-body aircraft such as the 747 and
later model Boeing wide-body aircraft. We will examine the influence of the C-5A Galaxy on the design of the 747, in particular as it concerns High-Bypass Turbofan Engine development and the influences of previous civilian and military aircraft produced by Boeing in the design of the 747-100. The design of the airframe, wings, control surfaces, egress, seating arrangements, avionics, communications, etc., will be discussed in depth and detail as will the first integral use of the Carousel IV Inertial Navigation System (INS). The legacy of aerial navigation leading up to INS and of the 747-100 itself to the aviation industry will also be of great interest and importance. Fee: $345

XARC-187 UNISPHERE: Biggest World on Earth*
Section: FX01 (Self-Study Online)
LUs: 4
This course will examine the background and events leading up to the design, construction, and completion of UNISPHERE — centerpiece of the 1964/65 New York World’s Fair held in Flushing Meadows. To fully understand the edifice, we will review the background of fair/exposition centerpieces starting with the Eiffel Tower in 1889 through to the Trylon and Perisphere — centerpiece of the 1939/40 New York World’s Fair (UNISPHERE would occupy the same “Theme Center” location a generation later). Furthermore, we will examine in depth and detail the engineering and architecture involved in designing UNISPHERE. In particular, we will review the use of computers without which the structural design of UNISPHERE would not have been feasible. The unique materials and erection methods used by the United States Steel (USS) Corp. will be the subject of much discussion and interest as well. Also, the rehabilitation of UNISPHERE and its permanent place in Flushing Meadows-Corona Park will be highlighted. Fee: $205

XARC-186 Gateway Arch Structure*
Section: FX01 (Self-Study Online)
LUs: 7
This course will examine the background and history of the Gateway Arch National Park (a/k/a Jefferson National Expansion Memorial) in St. Louis, Missouri. This will include the early origins of the City of St. Louis, its development as a commercial, industrial, and cultural center and the role played by its riverfront. We will also examine the role St. Louis played in the westward expansion of the United States and how the riverfront memorial celebrates that proud heritage. We will review the need for riverfront rehabilitation/development by the early 20th Century and how the idea of a memorial park with a thematic centerpiece was used to develop the riverfront into a national park while achieving “urban renewal” simultaneously. We will examine the politics, legislation, delays, design competition, structural engineering, architecture, innovative transportation system, etc., that led to the creation of Gateway Arch. We will study the peripheral development of the park, on-going maintenance problems, and plans for the future development of the national park on both sides of the Mississippi River. The life and work of the arch’s creator; “Modernist Master” architect Eero Saarinen, will also be examined in depth and detail. Fee: $235

XARC-185 Lady Liberty’s Centennial Restoration: 1984 – 1986*
Section: W01 (Long Island) Saturday: September 28; 9 a.m. – 6 p.m.
LUs: 8
Most people believe the Statue of Liberty was created for the sole purpose of welcoming immigrants to a new life in America—a belief based on its strategic location in New York Harbor, not its creator’s intention. Regardless, the Lady in the Harbor holds a special place in the American experience. After nearly a century of exposure to the elements and thousands of visitors, the monument was in dire need of a top-to-bottom repair/replace/improve restoration. What better way to justify a full restorative effort than the statue’s 100th birthday, July 4, 1986? Fee: $235

*Satisfies HSW requirements
XARC-184 White House Redux: The Gut Renovation of the Executive Mansion*
Section: W01 (Long Island) Saturday: October 19; 9 a.m. – 6 p.m.
LUs: 8
The White House symbolizes the power and dignity of the “highest office in the land.” Every President has tried to remake it in their own image, some more (and more successfully) than others. The first major renovation came as a result of the burning of the White House during the War of 1812. Other significant renovations would occur in 1902 and 1927. However, it was Harry Truman who initiated and completed the most memorable and important renovation in the structure’s long life in 1949 – 1952. A major inconvenience, it had to be done for posterity and safety’s sake. The result: a masterpiece of restorative design/construction. Fee: $235

XARC-183 Tennessee Valley Authority*
Section: FX01 (Self-Study Online)
LUs: 12
Learn about the history of the Tennessee Valley from early settlements to the creation of “The Valley of the Dams.” Problems, including soil erosion, deforestation, disease, chronic unemployment/poverty, and lack of electricity, will be discussed as part of the need for the Tennessee Valley Authority (TVA). The use of “multipurpose” dams to achieve the TVA’s primary goals, flood control and improvement of the navigation of the river (by creating a nine-foot-deep navigable channel via dredging and locks), will be the main focus. The creation of hydroelectric dams for rural and/or industrial electrification will also be of great importance. Peripheral activities of the TVA (i.e., malaria control, housing, technological innovation/experimentation, etc.) as well as the supplemental creation of coal- and nuclear-powered generating plants will be reviewed. Fee: $345

XARC-182 Truth Against the World: The Life and Architecture of Frank Lloyd Wright*
Section: FX01 (Self-Study Online)
LUs: 8
Learn about the life of Frank Lloyd Wright, “America’s Architect,” starting with his early days in Wisconsin and including the three phases of his career as an accomplished architect. The influences of his mother and his “Lieber Meister,” architect Louis Sullivan, will be discussed in detail. Other topics include: Wright’s preoccupation with reestablishing architecture as the supreme expression of culture; his “Prairie School” period; his work in and around Oak Park, Ill.; a scandalous affair with a client’s wife and abandonment of his family that led to his “Wilderness” period; and the influence of his third wife and their establishment of the Taliesin Fellowship, which led to the third and most productive period in his architectural career. Fee: $235

XARC-181 Pennsylvania Turnpike: Road of Tomorrow*
Section: FX01 (Self-Study Online)
LUs: 4
Examine the background, design, construction, expansion, and improvement of America’s first superhighway, the Pennsylvania Turnpike, including the creation of the initial 160-mile section between Irwin and Carlisle, Pa., along the right-of-way of the abandoned South Pennsylvania Railroad, and the use of roadbed and incomplete mountain tunnels to create a modern, high-speed, all-weather intrastate. We will discuss other roads’ and state highway systems’ impact on the turnpike. Topics will include the twinning of tunnels and bypasses; eliminating/adding interchanges/service plazas; roadway replacement/widening; electronic toll collection; and bridge replacement. Future plans (i.e., I-95 direct connection) and the turnpike’s significance as a model for the Interstate Highway System will be of great relevance. Fee: $135

XARC-180 Sydney Opera House: On the Edge of the Possible*
Section: FX01 (Self-Study Online)
LUs: 10
Learn about the Sydney Opera House in New South Wales, Australia. We will examine the venue’s history including early Aboriginal use, its development during the colonial period, its use as a defensive fort and tram depot, and its selection as the location for a National Opera House. We will examine the need for the opera house; the principals involved in its conception; the international competition to find a suitable design; and the winning design by Danish architect Jorn Utzon. We will review the construction “stages” and the resolution to the problem of designing
and constructing the roof shells. We will also consider the fenestration and interior finishes/uses; the addition of an underground parking facility; renovations; and prospective plans for additional facilities. **Fee: $295**

**XARC-179 Rockefeller Center: City Within a City***

**Section: FX01 (Self-Study Online)**  
**LUs: 4**

Examine the history of Rockefeller Center in New York City, including a review of the site in Colonial times, its ownership by Columbia University (the “Upper Estate”), and its development as a commercial complex. We will examine the initial plan to develop the complex for the Metropolitan Opera and changes to the plan because of the Great Depression. Discussions will include the modernist architecture of the structures and their construction, particularly the work of lead project architect Raymond Hood; its unique technical and aesthetic features; the magnificent art and sculpture, gardens, and public amenities; the role the center plays in the cultural life of the city it serves; the ancillary theaters that no longer exist; maintenance and operations; and the post-WWII westward extension of Rockefeller Center, the “Showplace of the Nation.” **Fee: $135**

**XARC-178 The Woolworth Building: At Home in the Clouds***

**Section: FX01 (Self-Study Online)**  
**LUs: 10**

Learn about the conception, design, and construction of New York City’s Woolworth Building, including a review of the history of its site on lower Broadway, the evolution of the skyscraper form in Chicago and New York, and the difficulties involved in creating a solid foundation in the “soup soil” of lower Manhattan with 69 reinforced concrete piers via the use of pneumatic caissons. We will examine the use of portal braces and the unique method of wind bracing employed by structural engineer Gunvald Aus. Furthermore, we will look at the architectural design of master Beaux Arts architect Cass Gilbert by focusing on the ornate lobby arcade, façade, and roof treatments. We will review restoration/repairs, including an in-depth examination of the mechanical, electrical, plumbing, and elevator systems, all of which were state-of-the-art in 1913 when the building opened. The life and career of the building’s namesake—Frank Winfield Woolworth—including his motivations for creating the building, will be of particular interest. Last, we will review plans to make the tower portion of the building into luxury residences. **Fee: $295**

**XARC-177 Pennsylvania Station***

**Section: FX01 (Self-Study Online)**  
**LUs: 7**

This course examines the background, development, construction, operation, and demolition of New York City’s Pennsylvania Station, including why the Pennsylvania Railroad Company wanted to bring its trains into Manhattan to link with the Long Island Railroad. In particular, we will look at the New York Improvement and Tunnel Extension, including tunnels under the Hudson/East River/s and Manhattan Island as well as the New York Connecting Railroad, providing a rail link to New England via the Hell Gate Bridge. The creation of the terminal building and yard facility will be a primary focus—including the commission for a “Monumental Gateway” by McKim, Mead and White in the Beaux Arts style. The exterior and interior design of the facility will be studied as well as its decline in the post-WWII era, leading to its demolition in 1963. The effects of the station’s demise, including the rise of the historic preservation movement and plans for the expansion of Penn Station to the Farley Post Office Building (“Moynihan Station”) will be of great interest. **Fee: $205**

**XARC-176 Audubon House: From Here to Sustainability***

**Section: FX01 (Self-Study Online)**  
**LUs: 3**

This course will focus on a “model” green building: the New York offices of the National Audubon Society, known as the Audubon House. We will examine the organization’s decision to purchase a century-old building and establish a precedent for constructing environmentally friendly buildings. The concern for the natural environment, specifically minimizing “eco-disruption,” will also be discussed. The history of the building as well as its gut renovation and façade restoration will be highlighted as will the Croxton Collaborative, the firm that pioneered methods, materials, and systems for green buildings. We will talk about materials,  

*Satisfies HSW requirements*
adhesives, finishes, lighting, mechanical equipmenplacement, in-house recycling, daylighting techniques, use of VOCs, recycled content products/materials, energy-efficient/saving devices and technologies, design/ construction criteria, and the integrated “team” approach to the architectural and mechanical design. Fee: $135

XARC-175 Light Gauge Metal Framing: The Sustainable Alternative*

Section: FX01 (Self-Study Online) LUs: 4

This course examines the sustainability, manufacture, pros/cons, workability, and application of Light Gauge Metal Framing (LGFM), also known as Cold-Formed Steel Framing. Our review will include a comparison of traditional wood framing and LGFM for residential structures. We will highlight similarities and differences between dimensional lumber and C-shaped steel members. Design standards and components used in LGFM as a “piece-for-piece” replacement for wood as well as “hybridization” will be discussed. We will focus on sustainable and other benefits such as dimensional stability, mechanical attachment, lightweight seismic performance, price, and fire performance as well as ways to overcome the thermal disadvantages of LGFM. The methods of joining LGFM and systems for framing a residential building will be examined, as will “stick-built” panelized and/or pre-engineered systems and the “prescriptive method” for LGFM. Fee: $135

XARC-174 Frank Lloyd Wright’s Masterpiece: The S.C. Johnson Wax Administration Building*

Section: FX01 (Self-Study Online) LUs: 5

How was a product as mundane as floor wax the catalyst for one of the greatest buildings of the 20th century by one of the greatest architects of any century: Frank Lloyd Wright? It was the quintessential FLW building, with the “scoundrel genius” at his very best—and worst. What made it all possible was a product called “Glo-Coat,” a self-polishing floor wax introduced by S.C. Johnson and Son in the early 1930s. Its success allowed Hibbard F. Johnson to create the “greatest office building in the world” for his employees. For FLW, the project came at a critical juncture. Nearing 70, it seemed his best years were behind him. Completed in 1939, the S.C. Johnson Wax Administration Building proved that FLW was still a force to be reckoned with. Fee: $165

XARC-189 Presidents on the Rocks: The Making of Mount Rushmore*

Section: W01 (Long Island) Saturday: October 26; 9 a.m. – 6 p.m.

LUs: 8

It would be remembered as the greatest work of sculptural engineering the world had ever seen. The carving of Mount Rushmore required engineering knowledge, materials, methods, and systems borrowed from antiquity and the modern mining engineer. Unlike the ancient Egyptians and Greeks, however, the most effective chisel in the toolbox of the modern mountain carver was dynamite. Gutzon Borglum learned how effectively dynamite could be used from the miners who created tunnels through the Alps. The “honeycombing” process would allow the mountain carvers to remove the granite close to the finish surface without disfiguring the granite base. The fact that the Mount Rushmore Memorial took 14 years (1927 – 1941) to complete is misleading since more than half that time was due to weather conditions and/or financing problems. Fee: $235

XARC-173 AUTOBAHN: Das Road*

Section: W01 (Long Island) Saturday: November 2; 9 a.m. – 6 p.m.

LUs: 8

One of the ironies of Germany’s national road system, the Autobahn, was that the United
States, with more than 20 million motor vehicles by the mid-1920s, would have to wait until the mid-1950s to get what Germany had at the outbreak of WWII. Even more ironic is that, at the time, Germany didn’t need such a road network since private car ownership was rare, reserved for the elite. Despite the Nazi Party’s contempt for a national road network, by the time they came to power, they recognized its value while the economical “Volkswagen” (“People’s Car”) solved the problem of empty Autobahns. Recognizing the strategic and commercial advantages of a modern highway system from his wartime experience, President Eisenhower would make manifest (though the Interstate Highway Act of 1956) what Germany had demonstrated was possible: a limited access, high speed, grade-crossing-less motorway extending far and wide. Fee: $235

XARC-158 Penn Station: Fall from Grace*
Section: W01 (Long Island) Saturday: November 23; 9 a.m. – 6 p.m.
LUs: 8
If there was a bright side to the loss of New York’s Penn Station—McKim, Mead and White’s neoclassic masterpiece that reinterpreted Rome’s Baths of Caracalla in the voluminous main waiting room—it was the prevention of a similar fate to its cross-town rival, Grand Central Terminal. The death sentence served on Penn Station gave life to a burgeoning historic preservation movement that is now codified in law, protecting our architectural treasures from their own “fall from grace.” Fee: $235

XARC-157 Woolworth Building: Cathedral in the Clouds*
Section: W01 (Long Island) Saturday: December 7; 9 a.m. – 6 p.m.
LUs: 8
The creation and opening of the Woolworth Building in 1913 was one of the greatest accomplishments of the pre-WWI “Progressive Era” in the United States. The building not only had to be the tallest, but also the most recognizable and distinguished in its architectural design and features. It was a celebration of capitalism and commerce, a real-life story of a poor farm boy making good and realizing his dream. Fee: $235

XARC-154 Town and Country: A Garden City for America*
Section: W01 (Long Island) Saturday: December 14; 9 a.m. – 6 p.m.
LUs: 8
In the years before WWI, four “movements” would come together to create Forest Hills Gardens: the “Suburb in the City.” The most important would be the Garden City movement made popular in Europe and England by urban theorist Ebenezer Howard. The “satellite city”
*Satisfies HSW requirements

XARC-156 Boeing 747-100: The Plane That Changed the World*
Section: W01 (Long Island) Saturday: November 9; 9 a.m. – 6 p.m.
LUs: 8
When the first 747-100 made its formal rollout in 1968, a crowd looked on in astonishment with many wondering how something so large would ever get off the ground. When conceived in the mid-1960s, the 747 was to serve an interim purpose. Referred to by Boeing’s Chairman Bill Allen and Pan American Airways’ Juan Trippe as a “stop-gap” airplane, it was to fill the time needed to develop the second generation of commercial jet aircraft: the Boeing 2707 SST, a larger, faster and further-flying variable-wing version of the Concorde. Alas, the Boeing SST would never be realized and the Concorde’s glory is in the past. However, the 747 was the world’s first wide-body (a/k/a “Jumbo”) passenger jet airliner, though sub-sonic, and went on to become one of the most produced and beloved aircraft of the last and present century. Fee: $235

XARC-163 Going Up! Going Down! A History of the Otis Elevator Company*
Section: W01 (Long Island) Saturday: November 16; 9 a.m. – 6 p.m.
LUs: 8
Probably no invention revolutionized the world in the 19th century as did the elevator. It’s not that the elevator was something new, the problem was safety because the hoist ropes (often made of hemp rope) would suddenly snap, sending the elevator hurtling earthward. It was just by coincidence that a “Master Mechanic” for a Yonkers, N.Y. bedding manufacturer named Elisha Graves Otis was assigned the task of creating a lift for heavy bed frames that the world got its first “safety elevator.” Now, instead of a death plunge, a simple springloaded brake mechanism would engage “teeth” in the side rails if the tension in the rope was not present. Fee: $235
he proposed was really an old idea made new: Develop on the outskirts of central cities towns that were well planned, accessible, and limited in their growth/population. **Fee: $235**

**XARC-102 Solar PV and Thermal Essentials**

**Section: M01 (New York City)** Tuesday and Thursday: October 15 & 17; 6 – 9 p.m.

**LUs: 6**

Learn the essential elements of solar photovoltaic and thermal system design and integration. Solar PV topics include grid-tied and off-grid systems; safety, site assessment and restraints; user demand; sizing and designing; codes; BIPV (Building Integrated PV); and installation, inspection, commissioning, maintaining, and troubleshooting. Solar thermal topics include collection, storage, and distribution for domestic hot water; space heating; commercial applications; flat plate panels and evacuated tube collectors; system sizing and components; heat storage and heat exchange tanks; closed-loop, pressurized glycol antifreeze system; the single- and double-pump drain-back system; and a drain-down, open loop active system. **Fee: $175**

**XARC-111 Expanded Blueprint Reading**

**Section: W01 (Long Island)** Tuesday: November 12; 9 a.m. – 5 p.m.

**LUs: 7**

This course provides more extensive coverage of the basic components of reading and understanding design and construction blueprints and plans. Topics will include types of construction documents, why construction documents are needed, layout of construction documents, drawing symbols, orthographic projections, sectional views and details, diagrams, schedules and their use, site plans, specifications, and reproduction of drawings. **Fee: $205**

**XARC-050 Blueprint Reading**

**Section: W01 (Long Island)** Tuesday: October 22; 6 – 9 p.m.

**LUs: 3**

This course will cover the basic components of reading and understanding design and construction blueprints and plans. Topics will include types of construction documents, why construction documents are needed, layout of construction documents, drawing symbols, orthographic projections, sectional views and details, diagrams, schedules and their use, site plans, specifications, and reproduction of drawings. **Fee: $135**

**XARC-028 Universal Design: Accessible & Usable Buildings**

**Section: W01 (Long Island)** Saturday: October 26; 9:30 a.m. – 1:30 p.m.

**LUs: 4**

What are the aspects of architecture, engineering, and design that engender positive emotional responses among, or enable equal access by, users of contemporary spaces? Examples of the scale, proportions, materials, and color that are pleasing, afford natural light and views of nature, and that make provisions for users with disabilities will all be discussed. **Fee: $135**

**XARC-130 Gateway Arch: Monument to a Dream**

**Section: W01 (Long Island)** Saturday: October 12; 9 a.m. – 6 p.m.

**LUs: 8**

Paris has the Eiffel Tower, Sydney has an Opera House, and New York has the gracious lady in the harbor: the Statue of Liberty. But perhaps nowhere else has a structure been more transformative for a city than in St. Louis, where a 630-foot-tall stainless-steel architectural sculpture stands in the Midwestern sun, beckoning visitors to come and celebrate the history of the city, its historic riverfront, and the expansion of the nation to the Pacific coast in the 19th century. **Fee: $235**

**XARC-170 Maginot Line: Triumph of Military Engineering**

**Section: W01 (Long Island)** Saturday: December 21; 9 a.m. – 6 p.m.

**LUs: 8**

Fear of a resurgent Germany motivated the creation of France’s magnificent Maginot Line, a wonder of the world in the 1930s. Even during the “Sitzkrieg” period (a/k/a “Phony War”), the Maginot Line, with its massive reinforced concrete walls/roofs, armored turrets, formidable weaponry, and invulnerable subterranean chambers was “the place to be” if a German attack came. Its failure came from lesser fortifications that were unable to stop the German Blitzkrieg in the Northeast. The older, larger fortifications, even when outflanked...
and attacked from both front and rear, were formidable—so much so that not one fell to the attacking enemy. The flaw lay in watering down fortifications that sought to extend the line to the North Sea and, more important, the failure of French generals to recognize the unfortified Ardennes as a gaping hole. Despite its shortcomings, the Maginot Line remains a triumph of military engineering. **Fee: $235**

**Architecture**

**XCAD-037 Utilizing AutoCAD and Autodesk Inventor 2020**

**Section: W01 (Long Island)** Tuesdays: September 10, 17, 24, October 1, 15, 22, 29, November 5; 6 – 8:30 p.m.

If you want to learn AutoCAD and Inventor 2020 and are completely new to CAD, this introduction course explores the strengths of each and shows how they can be used in design, separately and in combination. Topics include: basic 2-D framing; light 3-D modeling; identifying work planes and subtle manipulation defining surfaces; manipulation of World Coordinate and User Coordinate Systems; basic creating and dimensioning of 2-D multiview drawings using AutoCAD; creating 3-D parametric models and 2-D multi-view drawings using Autodesk’s Inventor; defining work sheets for printing; and how to reuse design information between AutoCAD and Autodesk Inventor. **Fee: $445**

**XCAD-034 Revit MEP Fundamentals**

**Section: M01 (New York City)** Wednesdays: September 18, 25, October 2, 9, 16, 23, 30, November 6, 13, 20; 6 – 9 p.m.

To take full advantage of Building Information Modeling (BIM), this course teaches the concepts and principles of creating 3-D parametric models of MEP systems. It introduces students to Autodesk Revit MEP’s software interface and the basic HVAC, electrical, and piping/plumbing components that make it a powerful, flexible modeling tool. You’ll get the tools necessary to create and document a complete parametric model. We will take you through the basics of a real-world project, from linking an architectural model to a MEP template to using Revit MEP tools to design HVAC, electrical, plumbing, and piping systems to create complete construction documents in 2-D or 3-D. **Fee: $655**

**Dance**

**XATV-044 Ballroom Dancing for Social Occasions**

**Section W01 (Long Island)** Thursdays: September 5, 12, 19, 26, October 3, 10, 17, 24; 7 – 8:45 p.m.

American Style Tango is one of the most time honored ballroom dances. This workshop is intended for those who desire to learn to dance tango as well as those who want to become more proficient in this dance. Best practice syllabus-based techniques will be utilized as a baseline. The workshop will build and reinforce the basics and then move into higher-level figures and associated techniques as it progresses.

Emphasis will be placed on timing, feet positions, room alignment, amounts of turn, dance positions and footwork. These elements and more will be emphasized in the efforts to improve the ability to lead and follow in this dance. The instructor will demonstrate all dance figures and combine them to form amalgamated routines. Join *Satisfies HSW requirements*
us at NYIT and sharpen your dance skills in American Style Tango.

Enrollment with a partner is recommended, however, singles are welcome. Participants should wear comfortable clothes and dance shoes or leather bottom shoes. Sneakers or rubber bottom shoes are not recommended. Instructor: Richard Fiore, Dual Licentiate/Trainer, USISTD. Fee: $95 per person

Design & Construction

(NEW) XCST-061 Smart Building and IT Integration
Section: W01 (Long Island) Thursdays: September 19, 26, October 3, 10, 17, 24: 6 – 8 p.m.
Section: M01 (New York City) Tuesdays: October 29, November 5, 12, 19, 26, December 3: 6 – 8 p.m.
The on-demand virtual world we live in creates new challenges when designing the physical spaces we occupy. The public, commercial, and residential environments all demand a connectivity and constant access to information systems that is no longer a luxury but a necessary utility that has quickly overtaken its predecessors as seemingly to the general population most important. This course will provide design and construction professionals with foundational principals of integrating technology such as Networks, Firewalls and Cyber Security, Virtualized environments, Wifi, Physical Security: integrated Video and Access Control, VoIP (Voice over IP) communications and IP Audio, into the initial spacial design program. It will discuss bringing to light the use of the space from a technology device perspective during initial design phases rather than as an afterthought or a large scope gap during the construction phases. This course brings another layer of service offering to your organization as a clients trusted partner in another layer of thoughtful and responsible design. Fee: $395

Energy Contracts

(NEW) XEGR-027 Energy Contracts & Financing
Section: M01 (New York City) Wednesdays: September 11, 18, 25, October 2, 16, 23, 30, November 6
In this course, students will learn the critical elements of successful energy contracts. Power purchase agreements, leasing structures, and energy as a service contract will be analyzed, as will multiple financial structures. Upon completion of the course work, students will have command of energy contracts and financing language as well as the components required for a successful project. Fee: $595

Engineering

(NEW) XTCH-019 The Evolution of Telecommunications
Section: W01 (Long Island) Friday, September 20: 1 – 3 p.m.
Section: W02 (Long Island) Thursday, October 24; 6 – 8 p.m.
People have long sent information over distances. For instance, smoke signals enabled people in one place to provide basic information (usually, “come here quickly” or “run away quickly”) more or less instantaneously to people nearby. During the past 150 years or so the ability to do this has exploded in distance and sophistication. This two-hour over will put advances in context. Topics will include telegraphy, undersea cable communications, radio, television, cable television, wireless services, the Internet and WiFi and 5G. Important related technologies, such as the Internet of Things, artificial intelligence and big data, also will be discussed. Fee: $75

Driver Education

XEDU-002 Driver Education
Section: W01 (Long Island)
(For dates and times, call 516.686.7490)
Upon successful completion of this course, you will earn an MV 285 “Blue Card,” which gives eligibility for a 10 to 15 percent discount on insurance premiums with most companies and allows you to apply for a senior driver’s license at age 17. Fee: $645

Engineering: Professional Development for Engineers

NYIT’s extended education program offers courses that meet the continuing education requirements in New York State for professional engineers. NYIT is
approved by the New York State Education Department to sponsor mandatory continuing education for professional engineers seeking license renewal.

(NEW) XARC-199 Imagineering: The Making of Walt Disney World
Section: W01 (Long Island) Saturday: September 14; 9 a.m. – 6 p.m.
PDH: 8
For course description, see page 10. Fee: $235

XARC-198 Jacobs II: FLW’s Passive Solar House
Section: FX01 (Self-Study Online)
PDH: 2
For course description, see page 10. Fee: $95

XARC-197 Different or Dysfunctional? Thom Mayne’s San Francisco Federal Building
Section: FX01 (Self-Study Online)
PDH: 2
For course description, see page 10. Fee: $95

XARC-195 FALLINGWATER: The Most Beautiful House in the World
Section W01 (Long Island) Saturday: September 7; 9 a.m. – 6 p.m.
PDH: 8
For course description, see page 11. Fee: $235

XARC-193 Bridging the Hudson*
Section: FX01 (Self-Study Online)
PDH: 8
For course description, see page 11. Fee: $235

XARC-194 Design Outlaws: Inventing the Future*
Section: FX01 (Self-Study Online) PDH: 3
For course description, see page 12. Fee: $135

XARC-191 Levittown USA: Birthplace of Suburbia*
Section: W01 (Long Island) Saturday: October 5; 9 a.m. – 6 p.m.
PDH: 8
For course description, see page 12. Fee: $235

XARC-190 Rockefeller Center*
Section: W01 (Long Island) Saturday: September 21; 9 a.m. – 6 p.m.
PDH: 8
For course description, see page 12. Fee: $235

XARC-188 Boeing 747*
Section: FX01 (Self-Study Online)
PDH: 12
For course description, see page 12. Fee: $345

XARC-187 UNISPHERE: Biggest World on Earth*
Section: FX01 (Self-Study Online)
PDH: 4
For course description, see page 13. Fee: $135

XARC-186 Gateway Arch Structure*
Section: FX01 (Self-Study Online)
PDH: 7
For course description, see page 13. Fee: $205

XARC-185 Lady Liberty’s Centennial Restoration: 1984 – 1986*
Section: W01 (Long Island) Saturday: September 28; 9 a.m. – 6 p.m.
PDH: 8
For course description, see page 13. Fee: $235

XARC-184 White House Redux: The Gut Renovation of the Executive Mansion*
Section: W01 (Long Island) Saturday: October 19; 9 a.m. – 6 p.m.
PDH: 8
For course description, see page 14. Fee: $235

XARC-183 Tennessee Valley Authority*
Section: FX01 (Self-Study Online)
PDH: 12
For course description, see page 14. Fee: $345

XARC-182 Truth Against the World: The Life and Architecture of Frank Lloyd Wright*
Section: FX01 (Self-Study Online)
PDH: 8
For course description, see page 14. Fee: $235

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XARC-102 Solar PV and Thermal Essentials
Section: M01 (New York City) Tuesday and Thursday: October 15 and 17; 6 – 9 p.m.
PDH: 6
For course description, please see page 18.
Fee: $175

XARC-111 Expanded Blueprint Reading*
Section: W01 (Long Island) Tuesday: November 12; 9 a.m. – 5 p.m.
PDH: 7
For course description, please see page 18.
Fee: $205

XARC-050 Blueprint Reading*
Section: W01 (Long Island) Tuesday: October 22; 6 – 9 p.m.
PDH: 3
For course description, please see page 18.
Fee: $135

XARC-028 Universal Design: Accessible & Usable Buildings*
Section: W01 (Long Island) Saturday: October 26; 9:30 a.m. – 1:30 p.m.
PDH: 4
For course description, please see page 18.
Fee: $135

XARC-130 Gateway Arch: Monument to a Dream*
Section: W01 (Long Island) Saturday: October 12; 9 a.m. – 6 p.m.
PDH: 8
For course description, please see page 18.
Fee: $235

XARC-170 Maginot Line: Triumph of Military Engineering
Section: W01 (Long Island) Saturday: December 21; 9 a.m. – 6 p.m.
PDH: 8
For course description, see page 18. Fee: $235

Leadership

(NEW) XBUS-056 Service Operations Leadership
Section: W01 (Long Island) Thursdays: September 19, 26, October 3; 6 – 8 p.m.
Section: W02 (Long Island) Mondays: October 21, 28, November 4; 6 – 8 p.m.
This course will teach real-world skills needed to be successful at any level, from a new-hire to a senior level executive, in any service organization. It is geared towards both experienced professionals as well as aspiring young professionals and recent graduates who are looking to succeed and grow. Through the detailed understanding and combined synergy of both of these mindsets, you can achieve individual and organizational success. The skills taught will help you bring your operations and your organization to a higher level. Topics covered include recruitment, customer service, technology, sales, goal creation and measurement, operational improvement, strategy and career growth through job progression. Fee: $375

Film

(NEW) XFLM-014 The Fine Art Of Acting on Film Part 2
Section: W01 (NYIT-Long Island) September 9, 16, 23, 30, October 7, 21, 28; 1-3:30pm
Bette Davis said: “Without wonder and insight, acting is just a business. With it, it becomes creation.” We see this especially when actors and actresses, in tune with their directors, become poets of the screen. In this multi-part series, actor-director and filmmaker Peter Joseph will examine what makes a great performance with examples selected from an international list that includes Marcello Mastroianni, Mathieu Amalric, Jeffrey Wright, Jimmy Stewart, Alan Bates, Burt Lancaster, and Isabelle Huppert. Fee: $165

(NEW) XFLM-015 The Fine Art of Acting on Film Part 3
Section: W01 (Long Island) November 4, 11, 18, 25, December 2, 9; 1-3:30 pm
Marlon Brando said: “An actor is at most a poet and at least an entertainer.” In this multi-part series, actor-director and filmmaker Peter Joseph will examine some of the great performances in cinema that are both poetry and entertainment, with examples including Marilyn Monroe, Clark Gable, Jack Lemmon, Tom Courtenay, Michael Caine, Sam Rockwell, and Peter Sellers. Fee: $165

*Satisfies HSW requirements
(NEW) XBUS-057 Basic Project Management
Section: M01 (New York City) Tuesdays: November 5, 12, 19, 26, December 3, 10; 6 – 9 p.m.
This class will provide attendees with an introduction to the realm of the project implementation, team building, research methodologies to practice and explore innovative approaches and marketing of a unique product or service with corporate objectives in industries such as advertising, marketing, fashion, publishing, transportation, web design, software coding, manufacturing, automation technology and information technology. It will provide the baseline for understanding of project implementation and structuring and explore the constraints for every project and establishing a scope of work (SOW). Interact with decision makers on scope creep and change orders policies. The class will provide an overview of preparing a work breakdown structure (WBS) from the scope of work, the assigned budget and allocated time. Attendees will understand risk factors and labor cost for any given project. Students will learn an understandable approach to scheduling with a timeline, bar chart, ganett chart, CPM and or PERM and deliverables (milestones) of any project. The goal for the attendees will be to approach any project as being on time, under cost and to deliver superior quality on a service or product. Attendees will be given one (1 st ) option of preparing a brief project management report on their business activities to improve product or service deliverable and profitability. The second (2nd) the BPM attendee(s) can elect to take a final quiz. Fee: $395

Marketing
(NEW) XMKT-023 Social Media Marketing Overview
Section: W01 (Long Island) Thursdays: September 12, 19, 26, October 3, 10, 17; 6 – 9 p.m.
Section: M01 (New York City) Mondays: September 16, 23, 30, October 7, 21, 28; 6 – 9 p.m.
Social Media is a major component in company marketing strategies. Whatever size your company, integrated social media strategies are a must. Learn the best practices and skills needed to connect your business goals with a proper social media strategy: choosing a platform, creating and managing media content, social listening and developing a media policy. Fee: $495

(NEW) XMKT-024 Paid Social Media Advertising Campaigns
Section: W01 (Long Island) Thursdays: October 24, 31, November 7, 14, 21, December 5; 6 – 9 p.m.
Section: M01 (New York City) Mondays: November 4, 11, 18, 25, December 2, 9; 6 – 9 p.m.
Learn how to create and implement ads that will generate awareness and revenue from your social media efforts. Investigate the multiple types of advertising options available across devices and about how to use the ad management platforms on Facebook, Twitter, LinkedIn, and Instagram. Learn to target, measure and improve your ongoing advertising activities on these social media platforms. *Recommended that XMKT-022 be taken previously to this course. Fee: $495
Writing Development

(NEW) XWRT-045 Effective Writing Skills

Section: W01 (Long Island) Thursdays:
September 12, 19, 26, October 3, 10;
6:30 – 8:30 p.m.

Section: W02 (Long Island) Wednesdays:
October 23, 30, November 6, 13, 20;
6:30 – 8:30 p.m.

Developing effective writing skills can be personally and professionally enriching. The ability to express our thoughts in writing is one of our most important life skills; this course equips participants, regardless of educational or professional level, with the skills, tools, and confidence needed to handle any writing endeavor effectively. Participants have the opportunity to develop and refine writing skills by completing several practical, diverse, and fun writing assignments encompassing business, personal, instructional, creative, and general writing formats. Fee: $130

(NEW) XWRT-046 Technical Writing 1

Section: F01 (Online) September 14, 21, 28,
October 5, 12

Learn to produce technical, informational, and persuasive documents and make your resume more appealing to employers. Technical documents are precise, concise, organized, and based on complex information. This course will cover the importance of target audience and how that audience impacts author decisions. You will gain experience with all parts of document creation, including layout, vocabulary, sentence and paragraph structure, visuals, etc. You will learn to prioritize the processes involved in creating technical documents and how to create effective, efficient, and polished materials. You will gain an understanding of several types of documents, including reports, instruction sets, and product documentation. You will design outlines of technical documents and design (using an awareness of techniques such as definition, classification, and audience analysis) an effective format and layout for a technical publication. Fee: $495

Real Estate

(NEW) XRES-069 Basic Real Estate Development

Section: M01 (New York City) Tuesdays:
September 17, 24, October 1, 15, 22, 29;
6 – 9 p.m.

This course delves into the phases of the real estate development process including conceptualization, site acquisition, planning and design, construction, financing, leasing and marketing. Leadership, management and control of the development team are featured issues. Areas of focus will be on the feasibility and marketing of a project such as commercial, industrial and residential; sources of investment capital and debt financing. Class will provide a baseline approach for anybody thinking about the role of being a Real Estate Developer. Attendee(s) will have the option of doing a basic real estate development report or taking a final quiz. Fee: $495

*Satisfies HSW requirements
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New York Institute of Technology (NYIT) offers 90 undergraduate, graduate, and professional degree programs in more than 50 fields of study, including computer science, data, and cybersecurity; biology and biomedical studies; architecture and design; engineering; health professions and medicine; IT and digital technologies; management; communications and marketing; education and counseling; and energy and sustainability. A nonprofit, independent, private, and nonsectarian institute of higher education founded in 1955, NYIT welcomes more than 9,000 students worldwide. The university has campuses in New York City (Manhattan) and Long Island (Old Westbury), New York; Jonesboro, Arkansas; and Vancouver, British Columbia, as well as programs around the world, and sponsors 17 NCAA Division II programs. With a student-centered approach and generous scholarships, NYIT embraces its mission to provide career-oriented professional education, give all qualified students access to opportunity, and support research and scholarship that benefit the larger world. NYIT’s caring, expert faculty and staff provide an outcomes-focused student experience and outstanding academic programs infused with technology. More than 100,000 NYIT alumni are part of an engaged network of physicians, architects, scientists, engineers, business leaders, digital artists, and health-care professionals. Together, the university’s community of doers, makers, and inventors empowers graduates to change the world, solve 21st-century challenges, and reinvent the future.

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**Cheryl Monticciolo**

Director, Compliance and Title IX Coordinator and 504 Coordinator
New York Institute of Technology
Tower House, Room 106
Old Westbury, NY 11568
516.686.1080
cheryl.monticciolo@nyit.edu
How to Register for Fall 2019

Fill out the registration form so that we receive it five days prior to the first class.

By Mail
Mail the form, along with your check or money order information, to:

New York Institute of Technology Extended Education
Harry J. Schure Hall, room 209
P.O. Box 8000
Old Westbury, NY 11568-8000

In Person
Long Island (Old Westbury, N.Y.) Campus
Harry Schure Hall (Enrollment Services Center)
Monday – Friday, 8 a.m. – 5 p.m.

New York City (Manhattan) Campus
16 West 61st Street, 1st Floor
(Enrollment Services Center)
Monday – Friday, 9 a.m. – 5 p.m.

Online
nyit.edu/extended_education/courses
(for credit or debit card payments) Must register at least 48 hours in advance.

Confirmation of Registration
After you register, you will receive a confirmation in the mail with information about your course time, place, room assignment, and any special instructions.

For more information, call us at 516.686.7490 or email exted@nyit.edu.

NYIT is committed to providing students and their families a range of options for paying their educational expenses. Please note, students will now be charged a convenience fee by NYIT’s third-party credit card processing vendor when making credit card payments to their bursar account. This change is being made to offset the costs associated with providing the convenience of online credit card payments.

CASHNet, an independent third-party contractor that accepts payments to a student’s bursar account, will charge a non-refundable convenience fee based on the amount charged. Domestic credit card payments will incur a non-refundable convenience fee of 2.75%, and international credit cards will incur a non-refundable convenience fee of 4.25%, which is assessed by CASHNet and not NYIT.

The convenience fee is paid to CASHNet, and NYIT does not receive any of this fee. The charge for the convenience fee will appear separately from the payment on your card statement. There will be no charge for online payments using your checking or savings account. To make a credit card payment, login to your student account at NYITConnect.

NOTE: a debit card with a credit card issuer logo will be processed as a credit card and incur the above convenience fees. If you wish to make a payment from your bank account, utilize the ACH (Automated Clearing House) payment option to avoid the credit card convenience fee.

E-check payments from checking and savings accounts will continue to be accepted online by NYIT through the ACH (Automated Clearing House) Network without a convenience fee via NYITConnect and in person at the Office of the Bursar.

For more information on credit card payment fees go to URL https://www.nyit.edu/bursar/credit_card_convenience_fees
Registration Form
Fall 2019

First name

Last name

Address

City

State

Zip code

Phone

Day

Evening

Date of birth MM/DD/YYYY

Email

Have you previously attended NYIT?  ○ Yes  ○ No  If yes, when?

Occupation

Company name

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Total

☐ Check enclosed: please make checks payable to New York Institute of Technology.

☐ Credit card payments use nyit.edu/extended_education/courses/

REGISTER EARLY to ensure your place in the classes you want.

Discounts: There is a 5 percent discount for senior citizens and NYIT alumni. Some programs and courses require proof of immunization. NYIT reserves the right to cancel any class, change class schedule, divide a class, or change instructors if necessary. Students will receive a full refund in any course in which they have enrolled that is canceled by NYIT.

Withdrawal and refund policy: No refunds will be granted for withdrawal from any noncredit course on or after the first scheduled day of class. Withdrawal must be in writing. Telephone cancellations cannot be honored.

Collection policy: By authorizing a registration or by dropping and/or adding or withdrawing or being dismissed from the courses I registered for this semester, I agree to be bound by this registration form and abide by NYIT’s rules and regulations set forth in NYIT’s online catalogs and nyit.edu. I agree to pay my debt to NYIT for any amounts due for tuition and fees and other charges. If my charges are not paid when due, I agree to pay NYIT all fees and costs associated with the collection of my delinquent account. In addition to payment of the principal amount due, the additional fees and costs may include collection agency fees constituting 33 to 50 percent of the principal amount due if NYIT engages a collection agency to collect payment; legal fees of 33.3% of the principal amount due if NYIT engages legal counsel to collect payment; any and all interest on the outstanding balance at the maximum legal rate allowed by law and any and all other costs associated with collection of the amount due NYIT. I understand my obligation to pay some or all of these additional fees and costs associated with collection of my delinquent account.

Student’s signature

Date MM/DD/YYYY
Long Island (Old Westbury, N.Y.) Campus
Northern Boulevard
Old Westbury, N.Y. 11568
(three traffic lights east of Glen Cove Road)

New York City (Manhattan) Campus
1855 Broadway
New York, N.Y. 10023
(at 61st Street)