EXTENDED EDUCATION
SPRING 2016 COURSE OFFERINGS

- Non-Credit Courses & Certificate Programs
- Personal Enrichment Seminars
- Customized Corporate Training

THIS SPRING
LOOK TO THE FUTURE!
BUILD YOUR SKILLS!
ADVANCE YOUR CAREER!
WHAT IS EXTENDED EDUCATION?

Extended Education offers quality programs designed to meet the needs of part-time, nontraditional student populations. Our non-credit courses draw upon the curricular strengths of NYIT to provide professional training and personal enrichment in architecture, AutoCAD, corporate training, dance, driver education, engineering, heavy equipment, interior decorating, project management, Revit, and more. Courses are offered at convenient times and affordable rates at campus locations in the New York metropolitan area.

We invite you to explore our course offerings and discover the ways that NYIT’s Extended Education program can assist you in advancing your educational and career goals. For further information about our courses and programs or to speak to a counselor, call 800.886.NYIT (6948) or visit nyit.edu/exted.

CORPORATE TRAINING

Extended Education courses can upgrade the skills and knowledge base of your workforce. You can obtain greater employee satisfaction and improved work performance through existing or custom-designed programs in AutoCAD, business, engineering or interior design, among other areas. Flexible course schedules (days, evenings, or weekends) allow you to find a time that is best for you. Courses may be conducted at your facility or at our conveniently located campuses on Long Island and Manhattan.

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

NEW THIS SPRING!

– Heavy Equipment Operator Certificate, see page 5.
– For engineers, AutoDesk Inventor and Revit MEP Fundamentals, see page 16.
– For job seekers or changers, Career Development courses, see page 16.
– For Managers and Directors, Certificate in Leadership & Project Management, see page 5.

800.886.NYIT (6948)
nyit.edu/exted
**Extended Education**

**Spring 2016**

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Non-Credit Certificate Programs

CERTIFICATE AUTOCAD 2016
This certificate is designed to build job mastery for the practicing construction professional architect, designer, engineer, programmer, or technician. The courses presume no previous background in the use of AutoCAD, but those who enroll are expected to have basic computer skills and knowledge of the basic principles of drafting. To earn the certificate in AutoCAD 2016, each participant must complete all four courses, which may be taken in different semesters. Courses also may be taken individually for skill enhancement.

*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 (Old Westbury)
Thursdays: February 4, 11, 18, 25, March 3, 10; 6 – 9 p.m.
Section: M01 (Manhattan)
Thursdays: February 4, 11, 18, 25, March 3, 10; 6 – 9 p.m.
Fee: $395
During this hands-on course, architects, engineers, drafters, and design professionals use AutoCAD 2016 and learn about the tools and techniques necessary to complete and edit production drawings using basic 2-D commands.

XCAD-024 AutoCAD Level II Part A
Section: W01 (Old Westbury)
Thursdays: March 17, 31, April 7, 14, 21, 28; 6 – 9 p.m.
Section: M01 (Manhattan)
Thursdays: March 17, 31, April 7, 14, 21, 28; 6 – 9 p.m.
Fee: $395
In this intermediate course, participants use AutoCAD 2016 and expand on basic 2-D commands to refine and edit production drawings.

XCAD-025 AutoCAD Level II Part B
Section: W01 (Old Westbury)
Tuesdays: February 2, 9, 16, 23, March 1, 8; 6 – 9 p.m.
Section: M01 (Manhattan)
Mondays: February 1, 8, 22, 29, March 7, 14; 6 – 9 p.m.
Fee: $395
As a continuation of the AutoCAD 2016 Level II Part A, this course expands participants’ knowledge of advanced 2-D commands to increase their customizing ability and productivity. *Note: 3-D commands will not be covered in this course.

XCAD-026 AutoCAD III: 3-D Modeling and Rendering
Section: W01 (Old Westbury)
Tuesdays: March 15, 29, April 5, 12, 19, 26; 6 – 9 p.m.
Section: M01 (Manhattan)
Mondays: March 28, April 4, 11, 18, 25, May 2; 6 – 9 p.m.
Fee: $395
Using AutoCAD 2016, learn to use the 3-D commands to create and use drawing planes. Gain skills to render surface and solid models.

XCAD-027 AutoCAD Advanced 3-D
Please see description of course on page 16.

CERTIFICATE REVIT ARCHITECTURE 2016
This certificate is designed to build job mastery for the practicing construction professional architect, designer, engineer, programmer, or technician. The courses presume no previous background in the use of Revit, but those who enroll are expected to have basic computer skills and knowledge of the basic principles of drafting. To earn the certificate in Revit Architecture 2016, each participant 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 (Old Westbury)
Saturdays: January 30, February 6, 20, 27, March 5, 12; 9:30 a.m. – 12:30 p.m.
Section: M01 (Manhattan)
Thursdays: January 28, February 4, 11, 18, 25, March 3; 6 – 9 p.m.
Fee: $395
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 the fundamentals of Revit (BIM). Gain an overview of the program’s features and tools. Such topics as documentation history and trends, project templates, exploring the user interface and discovering project work flow, and exploring the vast content provided right out of the box will be utilized in multiple project types.

XCAD-032 Intermediate Revit
Section: W01 (Old Westbury)
Saturdays: April 2, 9, 16, 23, 30, May 7; 9:30 a.m. – 12:30 p.m.
Section: M01 (Manhattan)
Thursdays: March 10, 17, 31, April 7, 14, 21; 6 – 9 p.m.
Fee: $395
Starting where our beginner class left us,
we continue to 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; sections elevations and perspectives; and schedules and project phasing tools. Here is where you learn to appreciate the power of your “I” in BIM. Such topics as working from a sketch to create a massing study; dimensioning (temporary and permanent); stairs, ramps, and railings; creating rooms and color fill patterns; detailing; and annotation will be covered.

XDSG-001 Design...Where It All Begins

Section: W01 (Old Westbury)
Saturdays: February 6, 13, 20, 27, March 5, 12; 1:00 – 4:00 p.m.

Section: M01 (Manhattan)
Wednesdays: February 24, March 2, 9, 16, 30, April 6; 6:00 – 9:00 p.m.

Fee: $395

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 of the program. Such topics as 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) will be covered. **Prequisite:** Intermediate Revit.

*For additional Revit 2016 courses, see page16.*

**CERTIFICATE IN INTERIOR DECORATION**

The certificate in interior decoration is aimed at adults who wish to pursue a new or an alternate career as an interior decorator. Upon successful completion of eight 10-week courses (five required and three electives), students will be awarded a certificate in interior decoration. The required courses are as follows: XDSG-001, XDEC-001, XDEC-002, XDEC-005, and XFSH-014. Courses meet for 10 sessions unless otherwise stated. Two 5-week electives fulfill the requirement of one 10-week elective. It is recommended that required courses be taken in order for best learning comprehension. Students must apply for the certificate in interior decoration upon completion of the program (applications are available at the Office of Extended Education). Students may also take individual courses for personal enrichment. An advanced certificate in interior decoration requires that a total of 12 (10-week) courses be successfully completed.

XDSG-001 Design...Where It All Begins

Section: W01 (Old Westbury)
Mondays: February 1, 8, 22, 29, March 7, 14, 28, April 4, 11, 18; 9:30 a.m. – noon

Section: W02 (Old Westbury)
Tuesdays: February 2, 9, 16, 23, March 1, 8, 15, 29, April 5, 12; 6:30 – 9 p.m.

Section: M01 (Manhattan)
Wednesdays: February 3, 10, 17, 24, March 2, 9, 16, 30, April 6, 13; 6:30 – 9:00 p.m.

Fee: $305

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

XDEC-001 Basic Drafting for Interior Decorators

Section: W01 (Old Westbury)
Tuesdays: February 2, 9, 16, 23, March 1, 8, 15, 29, April 5, 12; 9:30 a.m. – noon

Section: W02 (Old Westbury)
Wednesdays: February 3, 10, 17, 24, March 2, 9, 16, 30, April 6, 13; 6:30 – 9:00 p.m.

Section: M01 (Manhattan)
Thursdays: February 4, 11, 18, 25, March 3, 10, 17, 31, April 7, 14; 6:30 – 9:00 p.m.

Fee: $305

Students learn the methods and techniques of basic drafting and detailing for interior space planning. Students are taught how to execute scale, room plans, reflective ceiling plans, and elevations. **Prequisite:** XDSG-001.

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

XDEC-002 Interior Decorating and Applications I

Section: W01 (Old Westbury)
Wednesdays: February 3, 10, 17, 24, March 2, 9, 16, 30, April 6, 13; 9:30 a.m. – noon

Section: W02 (Old Westbury)
Thursdays: February 4, 11, 18, 25, March 3, 10, 17, 31, April 7, 14; 6:30 – 9:00 p.m.

Section: M01 (Manhattan)
Tuesdays: February 2, 9, 16, 23, March 1, 8, 15, 29, April 5, 12; 6:30 – 9:00 p.m.

Fee: $305

In this course, interior decoration skills are developed through a series of projects. Students begin to apply their knowledge to simple interior spaces. Emphasis is placed on function, analysis, and space planning. Students also begin to incorporate color, furniture, and finishing, while graphically representing the interior space. **Prequisites:** XDSG-001, XDEC-001.

XDEC-005 Business Practices for Interior Decorators

Section: W01 (Old Westbury)
Thursdays: February 4, 11, 18, 25, March 3, 10, 17, 31, April 7, 14; 9:30 a.m. – noon

Section: W02 (Old Westbury)
Mondays: February 1, 8, 22, 29, March 7, 14, 28, April 4, 11, 18; 6:30 – 9:00 p.m.

Section: M01 (Manhattan)
Mondays: February 1, 8, 22, 29, March 7, 14, 28, April 4, 11, 18; 6:30 – 9:00 p.m.

Fee: $305

**Non-Credit Certificate Programs**
An introduction to the many aspects involved in maintaining a successful interior decorating practice. Some topics covered include contracts, legal responsibilities, fees, marketing strategy, client interviewing, and professional organizations.

**XFSH-014 Fabrics and Materials**
**Section: W01 (Old Westbury)**
Fridays: February 5, 12, 19, 26; March 4, 11, 18; April 1, 8, 15; 9:30 a.m. – noon

**Section: W02 (Old Westbury)**
Tuesdays: February 2, 9, 16, 23; March 1, 8, 15, 29, April 5, 12; 6:30 – 9:00 p.m.

**Fee:** $305

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.

**XDEC-033 Space Planning: Residential**
**Section W01 (Old Westbury)**
Thursdays: February 4, 11,18,25, March 3, 10, 17, 31, April 7, 14; 10:00 a.m. – 12:30 p.m.

**Fee:** $305

Introduction to the historical development of interior decoration and design. Study of space planning and furniture layouts in a residence. Analysis of color psychology in a living environment. Preparation of a residential space plan project. **Prerequisites:** XDSG-001 and XDEC-001.

**XART-080 Basic Drawing**
**Section: W01 (Old Westbury)**
Tuesdays: February 16, 23, March 1, 8, 15; 10:00 a.m. – 12:30 p.m.

**Fee:** $205

Students will learn to draw landscapes, people, places, and things, focusing on the basic elements of drawing with an emphasis on perspective and technique. Approximate cost of materials is $100.00.

**XDEC-038 Feng Shui and Healthy Living for Designers**
**Section: W01 (Old Westbury)**
Thursdays: April 21, 28, May 5, 12, 19; 10:00 a.m. – 12:30 p.m.

**Fee:** $205

By applying the ancient knowledge of feng shui and green design basics to your home and workplace, you will learn to choose healthy options for you, your clients, and the planet. In this class, you will develop an awareness to select colors, shapes, textures, and accessories to uplift the energy in a space and enhance areas of your life that need improving. A field trip to green resource showrooms will be included.

**XDEC-004 Kitchens and Baths**
**Section: W01 (Old Westbury)**
Tuesdays: February 2, 9, 16, 23, March 1, 8, 15, 29, April 5, 12; 9:30 a.m. – noon

**Fee:** $305

Students 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 related specifically to kitchens and baths. **Prerequisite:** XDEC-001.

**XDEC-029 Practical Decorating**
**Section: W01 (Old Westbury)**
Fridays: January 29, February 5, 12, 19, 26; 9:30 a.m. – noon

**Fee:** $205

This is a course that addresses 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.

**XDEC-027 The History of Furniture**
**Section: W01 (Old Westbury)**
Wednesdays: February 3, 10, 17, 24, March 2, 9, 16, 30, April 6, 13; 9:30 a.m. – noon

**Fee:** $305

Learn about the history of furniture dating from ancient Egypt and Greece through the Western European countries. In addition, learn about the contributions of China and Japan. See how the evolution of furniture has influenced today’s world of decorating.

**XDEC-009 Resource Sampler Workshop**
**Section: W01 (Old Westbury)**
Wednesdays: April 20, 27, May 4, 11, 18; 10:00 a.m. – 12:30 p.m.

**Fee:** $205

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.

**XDEC-010 Accessories**
**Section: W01 (Old Westbury)**
Fridays: March 4, 11, 18, April 1, 8; 9:30 a.m. – noon

**Fee:** $205

Accessories are essential in putting the finishing touches on any room. Topics will include: the use of color in accessories and accent pieces; the importance of using the right artwork, flowers, collectibles, and pillows; and more.

**XART-046 Color Workshop for Interior Decorators**
**Section: W01 (Old Westbury)**
Mondays: April 11, 18, 25, May 2, 9; 10:00 a.m. – 12:30 p.m.

**Fee:** $205

This course will explore many of the aspects of color, such as the psychological and emotional
responses to color, and how different cultures and age groups relate to color. Students will learn about the uses of color in various industries, and the relationship of color to light and texture. This understanding will help designers develop appropriate color schemes for clients.

XART-027 Portfolio Workshop – Color Rendering
Section: W01 (Old Westbury)
Wednesdays: March 30, April 6, 13, 20, 27; 9:30 a.m. – noon
Fee: $205
This course presents demonstrations of techniques using color pencils and magic markers. It includes color rendering of interior fabrics and materials, lights and shadows, and matting of finished work.

XDEC-028 Window Fashions
Section: W01 (Old Westbury)
Mondays: February 1, 8, 22, 29, March 7, 14, 28, April 4, 11, 18; 9:30 a.m. – noon
Fee: $305
Students learn about the proper specification, fabrication, and installation of soft and hard window fashions, with special emphasis on multilayered treatments. Draperies, valences, 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. Students 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 in the course.

XDEC-006 Lighting
Section: W01 (Old Westbury)
Thursdays: February 4, 11, 18, 25, March 3, 10, 17, 31, April 7, 14; 6:30 – 9 p.m.
Fee: $305
Proper lighting is vital to the success of an interior design. Types of artificial light, their location, quantity, color balance, lifespan, output, and other characteristics are topics that will be examined. Students will learn how to develop a lighting plan and specification schedule. A field trip to a lighting showroom may be included to enhance and clarify the material covered in class.

XCAD-016 AutoCAD for Interior Decorators
Section: W01 (Old Westbury)
Thursdays: February 4, 11, 18, 25, March 3, 10; 6 – 9 p.m.
Section: M01 (Manhattan)
Thursdays: February 4, 11, 18, 25, March 3, 10; 6 – 9 p.m.
Fee: $395
See course description on page 2.

NON-CREDIT CERTIFICATE PROGRAMS

HEAVY EQUIPMENT OPERATOR CERTIFICATE
Fee: $2,950 per 21-hour module/$11,800 per 84-hour program
These certificates attempt to immerse the student in a real construction environment with a consistent emphasis on recognizing safe conditions and safe acts. Included in the 84-hour course curriculum is a 12-hour dedicated safety course, as well as daily safety “tool box” meetings. The course not only teaches the student how to operate all of the aforementioned machines, but practical applications are also taught, including: trenching, transport rigging, loading and securing cargo, demolition, tree removal, asphalt/concrete removal, blueprint reading, and the use and applications of a transit (theodolite).
Each certificate is divided into four 21-hour modules, level 1 through 4, for each piece of equipment, backhoe, excavator, Payloader, and bulldozer, that focus on a number of aspects of heavy equipment operation. Each 21-hour module may be taken individually. The safety course subject matter is comprehensive and tailored to the module subject matter as the course progresses. We also look at the aspects of driving heavy equipment machines on the public roadway. Students evaluations are performed through the use of a Skills Check Sheet system. The students are given ample time to hone their skills on any and all of the tasks presented. Please call 516.686.7490 for our exclusive Flexible Scheduling option.

XBUS-053 CERTIFICATE IN LEADERSHIP & PROJECT MANAGEMENT
This program consisting of the Concepts of Project Management (COPM) 30 hours and Negotiation and People Skills (NAPS) 9 hours will be provided to executives and senior managers, departmental supervisors, IT project coordinators, healthcare administrators, facility managers, office managers, and communication-technology personnel skills to enhance and improve the team leadership and project management knowledge. Participants that complete both classes will be issued a certificate of completion equivalent to 35 hours of continuing education credits required by Project Management Institute (ww.PMI.org), so that participants can take an examination to obtain a PMI, CAPM, or PMP designation. Courses can also be taken individually.
NON-CREDIT CERTIFICATE PROGRAMS

XBUS-051 Concepts of Project Management
Section W01 (Old Westbury)
Saturdays: January 23, 30, February 6, 20, 27; 9:00 a.m. – 5:30 p.m.

Section: M01 (Manhattan)
Mondays and Wednesdays: January 25, 27, February 1, 3, 8, 10, 17, 22, 24, 29; 6:00 – 9:00 p.m.

Section: M02 (Manhattan)
Mondays and Wednesdays: April 4, 6, 11, 13, 18, 20, 25, 27, May 2, 4; 6:00 – 9:00 p.m.

Fee: $395.00
Master the tools used by project managers: work breakdown structure, critical path, task analysis, project plan, project scheduling, and more. Gain the skills needed to plan, track progress, and stay focused on the end result. Where appropriate, students will learn PMBOK terminology and how it relates to certification. Class can be utilized for the continuing education credits for Project Management Institute (PMI.org) exam requirement for designations of CAPM (Certified Assistant Project Manager) or PMP (Project Management Professional). 30 hours of continuing education credits, 3 CEUs.

XBUS-052 Negotiation and People Skills
Section W01 (Old Westbury)
Saturday: March 5; 9:00 a.m. – 5:30 p.m.

Section: M01 (Manhattan)
Mondays: March 7, 14, 28; 6:00 – 9:00 p.m.

Section: M02 (Manhattan)
Mondays: May 9, 16, 23; 6:00 – 9:00 p.m.

Fee: $295.00
This experiential class is intended for the participant to better understand the theory, processes, and practices of negotiation, conflict resolution, and decision making so that you can be a more effective negotiator in a wide variety of situations. The course methodology is highly participatory and utilizes class discussions and simulations in both one-on-one and group situations. The exercises will emphasize organizational settings, but skills are applicable anywhere conflict occurs. Class can be utilized for the continuing education credits for Project Management Institute (PMI.org) exam requirements for designations of CAPM (Certified Assistant Project Manager) or PMP (Project Management Professional). 9 hours of continuing education credits, .9 CEUs.

XBUS-053 Certificate in Leadership and Project Management
Section W01 (Old Westbury)
Saturdays: January 23, 30, February 6, 20, 27, March 5; 9:00 a.m. – 5:30 p.m.

Section: M01 (Manhattan)
Mondays and Wednesdays: January 25, 27, February 1, 3, 8, 10, 17, 22, 24, 29, March 7, 14, 28; 6:00 p.m. – 9:00 p.m.

Section: M02 (Manhattan)
Mondays and Wednesdays: April 4, 6, 11, 13, 18, 20, 25, 27, May 2, 4, 9, 16, 23; 6:00 p.m. – 9:00 p.m.

Fee: $595.00
said of the French “poilu” (soldiers) by the security. 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” when the German attack came. Come it did (on May 10, 1940) and, indeed, the Maginot fortifications did exactly what they were intended to do. The failure came in the lesser fortifications (i.e., “petit ouvrages”), for the most part unable and unsuited to stop the German Blitzkrieg in the northeast. However, the older, larger fortifications (i.e., “gros ouvrages”), even when outflanked and attacked from both front and rear, were formidable, so much so that not one fell to the attacking enemy. The law lay in weathering down (to save cost) those fortifications that sought to extend the line to the North Sea and, more importantly, the failure of French generals to recognize the unfortified Ardennes as the gaping hole through which a mighty host would one day pour. Despite its shortcomings, the Maginot Line remains a triumph of military engineering. *NOTE: This course satisfies HSW requirements.

**NEW!** XARC-171 What’s Next, Flying Cars? The Roadable Aircraft Story
Section: W01 (Old Westbury)
Friday: April 29; 9:00 a.m. – 6:00 p.m.
Fee: $235
LUs: 8
It’s the Holy Grail of invention: mate a car to a plane and “Escape the Earth,” literally. Problem is, it’s like trying to mate an elephant and a pig; in the end, you don’t get a very good elephant or a very good pig. It appears the laws of physics did not intend cars to fly and vice versa, but that hasn’t stopped man from trying, real hard. Most of the early designs for “Roadable Aircraft” (a.k.a. “flying cars”) were of the modular type (a separate air frame and automobile). They weren’t very aerodynamic, fast, cheap, easily assembled, and, in the end, desirable. Then came the modular designs; more efficient assembly-wise but many of the same problems persisted. Either way, they both required the driver/pilot to get to an airport for takeoff and/or landing. By the 1950s, it looked like “air cars” and/or “hover cars” would be the way forward, but alas it was not to be. Ironically, VW has taken the air car idea to a new level by substituting air with magnetic levitation and the hovercar is making a return with designs for aerial ambulances, both manned and unmanned. Perhaps most telling is the investments being made in research by government agencies such as NASA and the Department of Defense’s DARPA. Major automobile manufacturers such as Toyota are also getting in on the act, recognizing that flying cars may be more opportunity than running joke.

**NEW!** XARC-170 Maginot Line: Triumph of Military Engineering
Section: W01 (Old Westbury)
Saturday: February 27; 9:00 a.m. – 6:00 p.m.
Fee: $235
LUs: 8
Maginot Line – a defensive barrier or strategy that inspires a false sense of security. *Merriam-Webster Dictionary* It was said of the French “poilu” (soldiers) by the Germans who fought them for four bloody years in the trenches of Western Europe during “The Great War” (a.k.a. “First World War”) that they were: “Lions led by Donkeys.” In other words, the “elan” (fighting spirit) of the typical French soldier was exceptional, but their leadership was not. This would be the case in 1940 as well. Fear of a resurgent Germany motivated the creation of France’s magnificent Maginot Line – a wonder of the world in the 1930s. Ironically, when a Frenchman (especially those who had experienced the trenches of WWI) heard those two words, “Maginot Line,” during the interwar years, it instilled in them a sense of both pride and security. 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” when the German attack came. Come it did (on May 10, 1940) and, indeed, the Maginot fortifications did exactly what they were intended to do. The failure came in the lesser fortifications (i.e., “petit ouvrages”), for the most part unable and unsuited to stop the German Blitzkrieg in the northeast. However, the older, larger fortifications (i.e., “gros ouvrages”), even when outflanked and attacked from both front and rear, were formidable, so much so that not one fell to the attacking enemy. The law lay in weathering down (to save cost) those fortifications that sought to extend the line to the North Sea and, more importantly, the failure of French generals to recognize the unfortified Ardennes as the gaping hole through which a mighty host would one day pour. Despite its shortcomings, the Maginot Line remains a triumph of military engineering. *NOTE: This course satisfies HSW requirements.*

**NEW!** XARC-169 Audubon House: From Here to Sustainability
Section: M01 (Manhattan)
Thursday: February 4; 6:00 – 9:00 p.m.
Fee: $135
LUs: 3
“When the student is ready, the teacher will appear.” In the late 1980s, the National Audubon Society set out to purchase a building for their new national headquarters in NYC. Little did they know they would, in a very real sense, begin in earnest the “Green Building Movement” of the 1990s, and beyond. Their motivation for creating an environmentally friendly, healthy workplace for their staff made perfect sense when you consider their status as a long-established, widely respected environmental organization. However, it would be in the realm of energy efficiency that the NAS wanted to make a statement and set an example for others to follow. If Audubon House could show others that it made more sense to conserve energy (rather than fouling pristine environments like the Arctic National Wildlife Refuge in Alaska...
by drilling for oil there), the NAS would be fulfilling its stated mission to preserve natural habitats for birds and other wildlife. Ultimately, the ideas at the core of the project caught on, at a time when not too many people were focusing on the built environment. It appears that Audubon House played the role of teacher when the student was not only ready but also eager to learn. “NOTE: This course satisfies HSW requirements.

(NEW) XARC-165 Design Outlaws: Inventing the Future Section: W01 (Old Westbury) Tuesday: March 8; 6:00 – 11:00 p.m. Section: M01 (Manhattan) Thursday: April 7; 6:00 – 11:00 p.m. Fee: $165 LUs: 5 “The future is where we’ll spend the rest of our lives” GM “Futurama” Exhibit As visitors to General Motors’ “Futurama” exhibit (at the New York World’s Fair of 1939/40) exited the exhibit, where they had gotten a preview of the future of vehicular transportation in the then far-off year 1966, they were given a small lapel button that simply stated: I Have Seen the Future. Indeed they had, albeit in scale model form, of what the future held. Now, it was up to the architects, engineers, scientists, biologists, chemists, inventors, etc., to manifest that vision into a reality—and so they did. By the latter part of the 20th century, the detrimental effects of the industrial revolution and technological advancement became all too apparent. Now, it would be up to another generation of great thinkers to invent a future that would take into consideration the consequences of technology and how it adversely affected the biosphere of planet earth. These brave souls would become the “Design Outlaws,” daring to question convention and seeing the connectivity between human action and living organisms. For them, the title would be a recognition that they were on the right track—a track that would invent a promising future for all mankind. “NOTE: This course satisfies HSW requirements.

(NEW) XARC-167 Whole Lotta Shakin’ Goin’ On: A History of Seismicity Section: W01 (Old Westbury) Saturday: February 6; 9:00 a.m. – 6:00 p.m. Fee: $235 LUs: 8 It seems counterintuitive, after all, our strongest instinct is survival, yet millions of people spend their lives knowing that in a matter of seconds, or minutes, their life and those of their loved ones, friends, and neighbors can be snuffed out by the unstable land beneath their feet. Perhaps it’s a case of cognitive dissonance—a psychological condition that allows a human being to knowingly accept what would otherwise be unacceptable. When a moderate earthquake struck southern California in March of 1933, the effects on Long Beach, California, and the surrounding towns of the Los Angeles Basin were devastating. Hardest hit were the school buildings, which collapsed in on themselves from the shock of the horizontal and vertical thrusts of the quake in the soft soil. Fortunately, the trembler struck in the late afternoon when school was out for the day, but the question everyone asked, whether consciously or subconsciously, was: what if it had struck just a few hours earlier? By this time, the science of seismology—the study of earthquakes—had advanced significantly, well enough to record and document the event for future study. In fact, the lessons learned from the failed structures inspired the first-ever seismic building codes to be adapted by the State of California. To those of us not in harm’s way, living in “Earthquake Country” seems to be a death wish, but for those in the line of fire, it’s a calculated risk. For the geologists, seismologists, architects, and engineers, the task at hand is to understand and minimize that risk. “NOTE: This course satisfies HSW requirements.

XARC-166 Boeing 747-100: The Plane That Changed the World Section: W01 (Old Westbury) Saturday: March 5; 9:00 a.m. – 6:00 p.m. Fee: $235 LUs: 8 When the first 747-100 made its formal “roll-out” in September 1968, the gathered crowd looked on in astonishment at the sheer size of the plane, 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, the gap it was to fill was the time needed to develop the second generation of commercial jet aircraft; the Boeing 7270 SST—America’s larger, faster, and further flying variable-wing version of the Anglo-French Concorde. Alas, the Boeing SST would never be realized (for various reasons) and Concorde’s glory is of the past. However, the 747—the world’s first wide-body (a.k.a. “Jumbo”) passenger jet airliner, though subsonic—went on to become one of the most prolific, recognizable, and beloved aircraft of the last and present century. “NOTE: This course satisfies HSW requirements.

XARC-165 TVA: The Great Experiment Section: W01 (Old Westbury) Saturday: March 12; 9:00 a.m. – 6:00 p.m. Fee: $235 LUs: 8 The Tennessee River Valley seemed to be a land that time forgot. By the time FDR was sworn in in his first term as POTUS, water was still being pumped by hand from a well and kerosene lanterns lit the valley night. To the private utility companies, the “saturation point” had already been reached when their transmission lines reached cities like Knoxville and Chattanooga. To run lines to the remote farms of the valley was just not worth the bother even if they could afford the high rates charged. This assumption was proved wrong when the TVA and its network of hydroelectric dams and
XARC-161 Metal Lumber: A History
Section: W01 (Old Westbury)
Tuesday: February 9; 6:00 – 11:00 p.m.
Fee: $165
LUs: 5

*NOTE: This course satisfies HSW requirements.

XARC-162 SCROB: Pennsylvania’s First Green Building
Section: W01 (Old Westbury)
Tuesday: February 23; 6:00 – 9:00 p.m.
Section: M01 (Manhattan)
Thursday: March 10; 6:00 – 9:00 p.m.
Fee: $135
LUs: 3

It was to be the Commonwealth of Pennsylvania’s first “green” building, a mandate from the governor’s office down to the state’s Department of Environmental Protection to “make it green.” By the mid-1990s when the building was conceived, the focus had moved from the natural to the built environment with NGOs like the U.S. Green Building Council (USGBC) leading the charge. In fact, the new South Central Regional Office Building (SCROB)—headquarters for PA DEP’s South-Central Region—would be selected as one of the USGBC’s LEED (Leadership in Energy and Environmental Design) Pilot (a.k.a. “Pioneer”) Program. Completed in May 1998, it was recognized as a model of energy efficiency and a living laboratory of “green” technologies, materials, and systems, but it wasn’t perfect. *NOTE: This course satisfies HSW requirements.

XARC-163 Scrobie: A History of the Otis Elevator Company
Section: W01 (Old Westbury)
Saturday: January 30; 9:00 a.m. – 6:00 p.m.
Fee: $235
LUs: 8

*Nearly 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. 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 spring-loaded brake mechanism would engage “teeth” in the side rails if the tension in the rope was not present. So simple, yet so ingenious. *NOTE: This course satisfies HSW requirements.

XARC-164 Grand Coulee Dam and the Planned Promised Land
Section: W01 (Old Westbury)
Saturday: April 2; 9:00 a.m. – 6:00 p.m.
Fee: $135
LUs: 8

When the good citizens of eastern Washington State thought about the future of the region in the early years of the 20th century, inevitably their thoughts turned to water. The soil was fertile but, unlike coastal regions of the Northwest, the lack of adequate rainfall inland left the lands of the Columbia Basin a dream unrealized. But what if the last ice age (whereby a massive glacial dam blocked the natural course of the mighty Columbia River, scouring out a “Grand Coulee,” returned the river to its natural course) could be re-invented in concrete, thus blocking the river once again and forming a large artificial lake behind it? Then, the spring and summer floods, coinciding with the planting season, could/would supply an area of more than a million acres with the water nature hadn’t provided. *NOTE: This course satisfies HSW requirements.

XARC-165 Light Gauge Metal Framing: A Sustainable Alternative to Wood
Section: W01 (Old Westbury)
Tuesday: April 5; 6:00 – 10:00 p.m.
Section: M01 (Manhattan)
Thursday: May 5; 6:00 – 10:00 p.m.
Fee: $135
LUs: 4

With dwindling natural resources and a growing consciousness of the negative effects of the built environment on the natural environment, it was inevitable that Light Gauge Metal Framing would be recognized and put to good use as the logical, sustainable alternative to wood. *NOTE: This course satisfies HSW requirements.

XARC-166 Mr. Lincoln’s Tunnel
Section: W01 (Old Westbury)
Tuesday: April 12; 6:00 – 11:00 p.m.
Section: M01 (Manhattan)
Thursday: May 12; 6:00 – 11:00 p.m.
Fee: $165
LUs: 5
To relieve the pressure of the growing tide of vehicles, another crossing of the Hudson River was needed in the gap between the Holland Tunnel and the George Washington Bridge, in the midtown-Manhattan vicinity; what was needed was a “Midtown-Hudson Tunnel.” Ultimately, it would be built by The Port of New York Authority and include a single tube initially, but grew to accommodate three “tubes,” serving as the all-important third trans-Hudson vehicular crossing. *NOTE: This course satisfies HSW requirements.*

**XARC-159 Transcontinental Railroad:**
Uniting the United States
Section: W01 (Old Westbury)
Saturday: January 23; 9:00 a.m. – 6:00 p.m.
Fee: $235
LUs: 8

It was the dream of Thomas Jefferson: a nation founded on democratic principles that would extend from the Atlantic to the Pacific oceans and it was America’s “Manifest Destiny” to conquer the continent, but it would not be quick nor would it be easy: Begun while the nation was tearing itself apart in a bloody Civil War, the Transcontinental Railroad would be completed in the post-Civil War era of reconciliation. *NOTE: This course satisfies HSW requirements.*

**XARC-158 Penn Station:**
Fall from Grace
Section: W01 (Old Westbury)
Saturday: February 13; 9:00 a.m. – 6:00 p.m.
Fee: $235
LUs: 8

If there was a bright side to the loss of NYC’s Penn Station—McKim, Mead & White’s neoclassic masterpiece that reinterpreted Rome’s Baths of Caracalla as a train station’s 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.” *NOTE: This course satisfies HSW requirements.*

**XARC-157 Woolworth Building:**
Cathedral in the Clouds
Section: W01 (Old Westbury)
Saturday: April 9; 9:00 a.m. – 6:00 p.m.
Fee: $235
LUs: 8

The creation and opening of the Woolworth Building in April 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, both inside and out. It was a celebration of capitalism and commerce, a real-life story of a poor farm boy making good and realizing his dream. *NOTE: This course satisfies HSW requirements.*

**XARC-156 Mr. Holland’s Tunnel**
Section: W01 (Old Westbury)
Tuesday: January 26; 6:00 – 11:00 p.m.
Section: M01 (Manhattan)
Thursday: February 11; 6:00 – 11:00 p.m.
Fee: $165
LUs: 5

Opened in 1927, the Holland Tunnel set the gold standard for ventilated vehicular tunnel design still used today. A financial and commercial success, in its wake came the George Washington Bridge (1931) and the Lincoln Tunnel (1937) to further break the water barrier (Hudson River) that had isolated Manhattan from the rest of the nation. To honor his heroic effort, the tunnel was posthumously named in honor of its chief engineer: Clifford M. Holland (not as a reminder of NYC’s Dutch heritage). *NOTE: This course satisfies HSW requirements.*

**XARC-155 Conquest of the Hudson**
Section: W01 (Old Westbury)
Sunday: February 7; 9:00 a.m. – 6:00 p.m.
Section: W02 (Old Westbury)
Saturday: April 16; 9:00 a.m. – 6:00 p.m.
Fee: $235
LUs: 8

It stood like a giant mote separating “America’s Metropolis” from the rest of the nation. The end of the line for railroads was the New Jersey (western) shore of the Hudson. Plans to span the water gap began in earnest in the post-Civil War years and for a variety of reasons, subaqueous tunnels—for both trains and vehicles, rather than a bridge—would provide the first trans-Hudson communication. However, by 1931, the mighty George Washington Bridge would also “Conquer the Hudson.” *NOTE: This course satisfies HSW requirements.*

**XARC-147 Five-By-Five: The Making of the Pentagon**
Section: M01 (Manhattan)
Tuesday: February 16; 6:00 – 11:00 p.m.
Section: M01 (Manhattan)
Thursday: February 18; 6:00 – 11:00 p.m.
Fee: $165
LUs: 5

Conceived in the mind of a logistical genius, the basic “Five-By-Five” (five sides by five floors) design of the Pentagon was conceived in a weekend’s time. With war imminent, 4,000 workmen labored to construct the building. After Dec. 7, 1941, the completion of the building was a national priority and now 15,000 men worked in three shifts to get the job done. By April 1942, the first tenants moved in. The Pentagon was dedicated in Jan. 1943 and complete by Feb. 1943—only 16 months after it began. *NOTE: This course satisfies HSW requirements.*

**XARC-146 Road of Tomorrow:**
The Pennsylvania Turnpike
Section: W01 (Old Westbury)
Saturday: April 23; 9:00 a.m. – 3:00 p.m.
Fee: $175
LUs: 6
The Pennsylvania Turnpike set the example for what would become the Interstate Highway System, which tied together a vast continent, much as “America’s Dream Highway” tied together the great State of Pennsylvania from the day it opened in 1940. It proved that modern, safe highways were achievable and what the public wanted and demanded. *NOTE: This course satisfies HSW requirements.

XARC-145 Distinctly Different or Dysfunctional? The San Francisco Federal Building
Section: M01 (Manhattan)
Tuesday: March 15; 6:00 – 9:00 p.m.
Fee: $135
LUs: 3
Architect Thom Mayne’s intentions seem to have been noble: save energy by taking advantage of San Francisco’s temperate climate, make use of natural light, promote worker health, social interaction, etc. However, it appears many of Mayne’s social experiments put into practice in the architectural and sustainable design of the San Francisco Federal Building were valid theoretically, but proved invalid in their application. *NOTE: This course satisfies HSW requirements.

XARC-144 Touching the Earth Lightly: The U.S. 20 Iowa River Bridge
Section: M01 (Manhattan)
Thursday: March 17; 6:00 – 9:00 p.m.
Fee: $135
LUs: 3
Why did it take 25 years to build a highway bridge over a river valley in central Iowa? The answer is as complicated as the design/construction of the bridge itself. Open since the summer of 2003, the average motorist passes over the +1,600-foot span in less than a minute, perhaps noticing the beautiful river valley from a sideways glance. That was the “big idea” behind the bridge: maintain the beauty and fragile ecosystem of the river valley for posterity by “touching the earth lightly.” *NOTE: This course satisfies HSW requirements.

XARC-143 Solar Hemicycle: Frank Lloyd Wright’s Jacobs II Passive Solar House
Section: M01 (Manhattan)
Thursday: March 31; 6:00 – 9:00 p.m.
Fee: $135
LUs: 3
Frank Lloyd Wright’s Jacobs II house would provide comfortable shelter for its occupants in its exposed site on the Wisconsin prairie using passive solar design. Wright termed it a “Solar Hemicycle,” which could/ would both heat and cool the house using earthen berms, thermal mass, radiant heating, and convection currents. In fact, Jacobs II is recognized as the first passive solar house ever built. As such, its legacy ranks among Wright’s greatest achievements as an architect. *NOTE: This course satisfies HSW requirements.

XARC-142 Flying Windmill: The Gyroplane Story
Section: W01 (Old Westbury)
Saturday: April 30; 9:00 a.m. – 6:00 p.m.
Fee: $235
LUs: 8
It’s one of the great stories of the early days of aviation and its legacy is still with us in the form of the conventional helicopter. By 1931, it seemed the autogiro (a.k.a. “gyroplane”) was destined for great things, but in solving the technical problems required for it to take flight, most of the problems that were delaying the development of the helicopter were resolved. Alas, the helicopter’s ability to hover would mark the end of the autogiro era with the close of WWII. *NOTE: This course satisfies HSW requirements.

XARC-141 Othmar Ammann and the Great Gray Bridge
Section: W01 (Old Westbury)
Saturday: May 7; 9:00 a.m. – 6:00 p.m.
Fee: $235
LUs: 8
The George Washington Bridge across the Hudson River at NYC was the most important bridge of the 20th century; not because it ended the island of Manhattan’s isolation from the rest of the continent forever (it did just that), but, rather, because it would enable all the “unbridgeable” water gaps—from San Francisco Bay, to the Mackinac Straits and even the Inland Sea of Japan—to be bridged by a long-span suspension bridge designed using “Deflection Theory,” which the GWB proved. *NOTE: This course satisfies HSW requirements.

XARC-140 Frank Lloyd Wright’s House of Wax
Section: W01 (Old Westbury)
Saturday: May 14; 9:00 a.m. – 6:00 p.m.
Fee: $235
LUs: 8
It seems somehow innocuous that a product as mundane and utilitarian as floor wax would be the catalyst for one of the greatest buildings of the 20th century, by one of the greatest architects of any century: Frank Lloyd Wright, but that’s exactly what happened. It was the quintessential Wright building, with the “scoundrel genius” at its very best—and worst. *NOTE: This course satisfies HSW requirements.

XARC-139 Mighty Mac: Bridging the Mackinac Straits
Section: M01 (Manhattan)
Wednesday: February 17; 6:00 –11:00 p.m.
Fee: $165
LUs: 5
It took four construction seasons and the lives of five workmen, but the great bridge opened for business the first day of November 1957. Ever since, it has served the people of Michigan well, uniting a formerly geographically divided state and serving as the crowning achievement of Dr. David B. Steinman’s long and distinguished career as

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a builder of bridges. *NOTE: This course satisfies HSW requirements.

**XARC-137 Normandie: Ship of Dreams**
Section: W01 (Old Westbury)
Saturday: May 21; 9:00 a.m. – 6:00 p.m.
Fee: $235
LUs: 8
She was the greatest transatlantic liner of her era and, in the opinion of many, the greatest liner that ever was (or ever will be) built. She was the flagship of the French Line CGT (Compagnie Generale Transatlantique) and the pride of the French nation—she was the S.S. Normandie. Her sleek, streamlined appearance makes her look modern even today and her interior decor is the stuff of legend. Alas, the great ship died an ignoble death, but her legacy lives on as the “Ship of Dreams.” *NOTE: This course satisfies HSW requirements.

**XARC-135 When Boats Had Wings**
Section: W01 (Old Westbury)
Sunday: April 17; 9:00 a.m. – 6:00 p.m.
Fee: $235
LUs: 8
The story of flying boats follows the story of aviation itself closely since landing on water made a lot of sense in the early days of aviation whereby suitable landing fields were few and far between. The fact that most large cities are situated near large bodies of water and heavier loads could be lifted (since water provides an infinite runway) added to the appeal. The advantage would be negated by the multitude of airfields constructed during WWII. The flying boat’s golden age had passed. *NOTE: This course satisfies HSW requirements.

**XARC-134 Bridging San Francisco Bay**
Section: W01 (Old Westbury)
Sunday: May 1; 9:00 a.m. – 6:00 p.m.
Fee: $235
LUs: 8
There’s another bridge in San Francisco that is, in fact, a contemporary of the well-known Golden Gate Bridge (1937). From a purely technical point of view, it is the greater work: The San Francisco–Oakland Bay Bridge (1936). Locals refer to it simply as “The Bay Bridge” and it is the workhorse of the Bay Area. There would be great obstacles to overcome to get it built—both natural and man-made. In the end, both would be overcome. *NOTE: This course satisfies HSW requirements.

**XARC-133 Spanning the Golden Gate**
Section: W01 (Old Westbury)
Saturday: February 20; 9:00 a.m. – 6:00 p.m.
Fee: $235
LUs: 8
It was the bridge that could not and should not be built. The Golden Gate Strait was too wide and treacherous, the fog conditions were abominable, and even if you could build a bridge, the next big earthquake would just bring it all crashing down. The odds were against it, but fortune favors the bold, so it was that a bold man with a bold plan to build a bridge from San Francisco to Marin County that was both cost-effective and enduring took up the mighty task; his name was Joseph B. Strauss. *NOTE: This course satisfies HSW requirements.

**XARC-128 Hoover Dam: Conqueror of the Colorado**
Section: W01 (Old Westbury)
Sunday: March 6; 9:00 a.m. – 6:00 p.m
Fee: $235
LUs: 8
Construction of Hoover Dam began in 1931 and was completed two years ahead of schedule (in 1935). The sheer scale of the project left the nation—and the entire world—in awe of the accomplishment. It would provide employment for thousands and serve as a shining example of what men could achieve when they cooperate for a greater good. The Colorado River had been conquered by men and put to work for the service of mankind. *NOTE: This course satisfies HSW requirements.

**XARC-129 Sydney Opera House: Splendid Geometry**
Section: W01 (Old Westbury)
Sunday: April 3; 9:00 a.m. – 6:00 p.m.
Fee: $235
LUs: 8
Perhaps no building in the world is more symbolic and recognizable than the Sydney Opera House. Its creation spanned 14 turbulent years, yet its very existence has been transformative, leaving one era in the life of the land “Down Under” behind and ushering in a new one, whereby Australia has taken its rightful place among the great nations of the world since its opening in October 1973. *NOTE: This course satisfies HSW requirements.

**XARC-130 Gateway Arch: Monument to a Dream**
Section: W01 (Old Westbury)
Sunday: April 10; 9:00 a.m. – 6:00 p.m.
Fee: $235
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 tall 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. *NOTE: This course satisfies HSW requirements.

**XARC-131 Grand Central: Grand by Design**
Section: W01 (Old Westbury)
Wednesday: April 27; 9:00 a.m. – 6:00 p.m.
Fee: $235
LUs: 8
Perhaps no structure in all of New York City
is more integral to its existence and smooth functioning than Grand Central Terminal. Located in the heart of the city’s midtown business district, fully 70 percent of the jobs located in this critical area are within walking distance of Grand Central. Though long-distance trains no longer arrive and/or depart its platforms, it serves commuters in two states and six counties, providing easy access to the metropolis it has served so well for so long. *NOTE: This course satisfies HSW requirements.

XARC-132 The Panama Canal: A Land Divided, a World United
Section: W01 (Old Westbury)
Sunday: April 24; 9:00 a.m. – 6:00 p.m.
Fee: $235
LUs: 8

“The creation of a water passage across Panama was one of the supreme human achievements of all time, the culmination of a heroic dream of over four hundred years and of more than twenty years of phenomenal effort and sacrifice. The fifty miles between the oceans were among the hardest ever won by human effort and ingenuity, and no statistics on tonnage or tolls can begin to convey the grandeur of what was accomplished...It is a work of civilization.” David McCullough.

*NOTE: This course satisfies HSW requirements.

XARC-138 Mach 1 & Beyond: The Quest for Supersonic Flight
Section: M01 (Manhattan)
Tuesday: March 1; 6:00 – 11:00 p.m.
Fee: $165
LUs: 5

It was a dream as old as manned flight: fly faster than the speed of sound. At first, it seemed an impossible dream, the physical and technical obstacles too difficult to overcome—but that made no difference to the dreamers. With advances in the understanding of aerodynamic forces and sophisticated propulsion systems, the great challenge to aviation—breaking the sound barrier—was met one fine day in the fall of 1947 by test pilot Charles “Chuck” Yeager. *NOTE: This course satisfies HSW requirements.

XARC-126 Hindenburg: Last of the Great Airships
Section: W01 (Old Westbury)
Sunday: May 8; 9:00 a.m. – 6:00 p.m.
Fee: $235
LUs: 8

They were “the biggest birds that ever flew” — the great dirigible airships of the early 20th century. The greatest of them all would be the 129th “Luftschiff” (airship) produced by the Zeppelin Company of Friedrichshafen, Germany. LZ (Luftschiff Zeppelin) 129 would be known to the world as “Hindenburg.” The story of the great airships is intertwined with that of manned flight itself and her tragic demise would bring to an end a glorious era of lighter-than-air trans-Atlantic aviation. *NOTE: This course satisfies HSW requirements.

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XARC-125 Rockefeller Center: City Within a City
Section: M01 (Manhattan)
Thursday: April 21; 6:00 – 11:00 p.m.
Fee: $165
LUs: 5

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 Mr. Rockefeller and his family fortune. They may have had a point in 1930, but by 1937, when these words were first sung, Rockefeller Center had proved the skeptics wrong and indeed, the public and corporate America. *NOTE: This course satisfies HSW requirements.

XARC-150 River of Steel: New York’s First Subway
Section: W01 (Old Westbury)
Sunday: May 15; 9:00 a.m. – 6:00 p.m.
Fee: $235
LUs: 8

New York City’s IRT Subway, begun in 1900, was completed on schedule (four and a half years later) on October 27, 1904. The subway immediately allowed the city to expand northwards and in the ensuing years, hundreds more miles of track were added to the system. But it all began with the IRT: Interborough Rapid Transit. *NOTE: This course satisfies HSW requirements.

XARC-149 Underground: How the Tube Shaped London
Section: W01 (Old Westbury)
Thursday: April 28; 6:00 – 11:00 p.m.
Fee: $165
LUs: 5

When the Metropolitan line of the London Underground opened in Jan. 1863, it was a foul-smelling and, in general, unappealing environment (mainly due to the presence of the “smokeless” steam engines that weren’t very smokeless). Even so, Londoners flocked to “The Tube” (as it was quickly dubbed) for relief from the burden of traveling on the surface streets. Ever since, the history of the Underground has been intimately entwined with the development of London itself, even to the present day. *NOTE: This course satisfies HSW requirements.

XARC-122 Building the Brooklyn Bridge: An Epic for the Age
Section: W01 (Old Westbury)
Sunday: March 13; 9:00 a.m. – 6:00 p.m.
Fee: $235
LUs: 8

Though it was not the first suspension bridge with wire cables, cable stays, stiffening trusses, masonry towers, and anchorages, its great main span (nearly 1,600 feet) and use of steel (rather than iron) for the wire cables, suspenders, and superstructure ushered in a new age of steel construction. The same year
the Brooklyn Bridge was completed (1883), the first “skyscraper” appeared in Chicago. The age of steel had begun. *NOTE: This course satisfies HSW requirements.

XARC-121 Unisphere: Miracle in the Meadow
Section: W01 (Old Westbury)
Tuesday: April 19; 6:00 – 11:00 p.m.
Section: M01 (Manhattan)
Thursday: January 28; 6:00 –11:00 p.m.
Fee: $165
LUs: 5
For the planners of the 1964 New York World’s Fair, there had to be a “Theme Center” that would be instantly recognizable and symbolically represent the overall theme of the fair: “Peace Through Understanding.” A simple but elegant design for a large-scale structural sculpture representative of the earth was eloquently simple and true to the “space age” ideals of the fair, but engineering and erecting the “Unisphere” would be a monumental task indeed. *NOTE: This course satisfies HSW requirements.

XARC-118 Sydney Harbor Bridge: The Giant Coat Hanger
Section: W01 (Old Westbury)
Tuesday, April 26; 6:00 – 11:00 p.m.
Section: M01 (Manhattan)
Thursday: May 19; 6:00 – 11:00 p.m.
Fee: $165
LUs: 5
Without the Sydney Harbor Bridge’s rail, tram, footpath, and roadway that connects the distant north and south shores of one of the world’s finest harbors, Sydney would not be the city we know today. Perhaps too it was fitting that a grand arch design was chosen for the site. Dating back to the world’s first great bridge-builders—the Romans—the arch reminds us all of the nobility of connecting people with great bridges. *NOTE: This course satisfies HSW requirements.

XARC-151 Mr. Eiffel’s Tower
Section: W01 (Old Westbury)
Tuesday, May 10; 6:00 – 11:00 p.m.
Fee: $165
LUs: 5
The completed Eiffel Tower was a wonder of simplicity, technology, and prefabrication. Though the cultural elitists cried foul, the Parisians and exposition visitors fell instantly in love with La Tour de 300-Meters. It was not meant to be a permanent fixture in Paris, but with the tower’s usefulness for scientific experimentation, communications, and national defense, it became a necessity. At the same time, it became a symbol of Paris and the French nation. Perhaps that is its greatest legacy. *NOTE: This course satisfies HSW requirements.

XARC-116 Chrysler Building: Race to the Sky
Section: W01 (Old Westbury)
Tuesday: May 10; 6:00 – 11:00 p.m.
Fee: $165
LUs: 5
For an industrialist like Walter P. Chrysler, it was only natural for him to celebrate his success and promote his company’s products with the world’s tallest building; just as Singer and Woolworth had done. Add to the mix the talents of a progressive architect steeped in the values of the 1925 Paris International Exhibition and the result was an Art Deco masterpiece: the Chrysler Building, the exclamation point on the NYC skyline. *NOTE: This course satisfies HSW requirements.

XARC-109 I Have Seen the Future: The New York World’s Fair of 1939/40
Section: W01 (Old Westbury)
Tuesday: May 17; 6:00 – 10:00 p.m.
Fee: $135
LUs: 4
Born on a stormy night in 1867, his birth was “prophetic” for his mother determined that, while still in the womb, her son was to be a great architect. So it came to pass, the prophecy fulfilled in a stormy life plagued by scandal and strife, yet the legacy of “America’s Architect” lives on in his great body of work. Like the great man said: “Architecture is that which is built.”
hold a special place in their collective memory for the fair that showed us a potential future that promised to be better, even if only in our imaginations. *NOTE: This course satisfies HSW requirements.

XARC-102 Solar PV and Thermal Essentials
Section: M01 (Manhattan)
Tuesday and Thursday: March 8, 10; 6:00 – 9:00 p.m.
Fee: $175
LUs: 6
Learn the essential elements of solar photovoltaic and thermal system design and integration in this detailed, six-hour seminar. Solar PV topics include both grid-tied and off-grid systems; safety; site assessment and site restraints; user demand; sizing and designing a system; codes; BIPV (Building Integrated PV); and installation, inspection, commissioning, and maintaining and troubleshooting a system. Solar thermal topics covered 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, and the single and double-pump drain-back system; and a drain-down, open-loop active system will be analyzed and reviewed. *NOTE: This course satisfies HSW requirements.

XARC-152 Empire State Building: Monarch of the Sky
Section: W01 (Old Westbury)
Tuesday: April 5; 6:00 – 9:00 p.m.
Fee: $235
LUs: 8
“...I saw a romantic structure wrought by human brains and hands that is to the burning eye of the sun a rival luminary...I heard the hammer of Thor ring when the shaft began to rise upward. I saw the unconquerable steel, the flash of testing flames, the sword-like rivets...I saw countless skilled workers welding together that mighty symmetry...” Helen Keller, 1931. *NOTE: This course satisfies HSW requirements.

XARC-154 Town and Country: A Garden City for America
Section: W01 (Old Westbury)
Sunday: February 21; 9:00 a.m. – 6:00 p.m.
Fee: $235
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 that was popular in Europe and England by urban theorist Ebenezer Howard. The “satellite city” 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. *NOTE: This course satisfies HSW requirements.

XARC-153 Magnificent Ambition: World Trade Center
Section: W01 (Old Westbury)
Sunday: January 31; 9:00 a.m. – 6:00 p.m.
Fee: $235
LUs: 8
The twin towers of the WTC and the complex at its base were referred to, at the time, as “The First Buildings of the 21st Century” for good reason. The WTC was a marvel of architectural and engineering design and innovation. From the “Giant Bathtub” (that kept the nearby Hudson River out) to the window-washing apparatus, the WTC was a springboard and proving ground for contemporary design, construction, and manufacturing techniques. *NOTE: This course satisfies HSW requirements.

XARC-058 Insulation in Sustainable Design
Section: W01 (Old Westbury)
Tuesday: February 23; 6:30 – 8:30 p.m.
Fee: $65
LUs: 2
This course involves how to evaluate and select insulation products based upon design considerations and characteristics such as environmental impact, health and safety, thermal, acoustical and fire characteristics, and sustainability. A review of the major insulation types and many misconceptions about insulation will also be discussed. *NOTE: This course satisfies HSW requirements.

XARC-050 Blueprint Reading
Section W01 (Old Westbury)
Tuesday: April 5; 6:00 – 9:00 p.m.
Fee: $135
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. *NOTE: This course satisfies HSW requirements.

XARC-028 Universal Design: Accessible and Usable Buildings
Section: W01 (Old Westbury)
Saturday: April 2; 9:30 a.m. – 1:30 p.m.
Fee: $135
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 make provisions for users with disabilities will all be discussed. *NOTE: This course satisfies HSW requirements.
ARCHITECTURAL REVIEW EXAM PREPARATION

For course information, please see page 21.

XCAD-034 Revit MEP Fundamentals
Section: W01 (Old Westbury)
Thursdays: February 4, 11, 18, 25, March 3, 10, 17, 31, April 7, 14; 6:00 – 9:00 p.m.
Section: M01 (Manhattan)
Mondays: February 8, 15, 22, 29, March 7, 14, 21, April 4, 11, 18; 6:00 – 9:00 p.m.
Fee: $625

To take full advantage of Building Information Modeling (BIM), the Autodesk Revit MEP Fundamentals course has been designed to teach the concepts and principles of creating 3-D parametric models of MEP systems from engineering design through to construction documentation. This hands-on course is intended to introduce students to the software’s interface and the basic HVAC, electrical, and piping/plumbing components that make the Autodesk Revit MEP software a powerful and flexible engineering modeling tool. The objective is to familiarize students with the tools necessary to create and document a complete parametric model. The examples and practices used are designed to take the student through the basics of a real-world project, from linking an architectural model to an 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.

For additional Revit 2016 courses, see page 2.

XCAD-028 Autodesk Inventor - Introduction
Section: W01 (Old Westbury)
Mondays: February 1, 8, 22, 29, March 7, 14, 28, April 4, 11, 18; 6:00 – 9:00 p.m.
Fee: $395

Autodesk Inventor is an inherent and intuitive command set features creating, editing, analyzing, and printing of 3-D models and drawings. Create one model/assembly and the orthographic (plan) views are automatically generated. Parametrically modify the entire model from any view. This course will provide fundamental training for Autodesk Inventor users. Upon completion, you will be able to construct simple parts and assembly models of basic to moderate complexity in generating 2-D/3-D drawings. With AutoCAD compatibility, adaptive technology, large-assembly performance, and intuitive workflow, it provides students the freedom to design without limits. Sketch and assembly design enhancements make top-down assembly design faster and easier. Expanded tools give users more options for importing and exporting designs. Drawing manager enhancements that give users more control over the behavior of detail views.

AUTOCAD

XCAD-027 AutoCAD Advanced 3-D
Section: W01 (Old Westbury)
Saturdays: February 27, March 5, 12, April 2, 9, 16; 12:30 – 3:30 p.m.
Section: M01 (Manhattan)
Saturdays: April 2, 9, 16, 23, 30, May 7; 9:30 a.m. – 12:30 p.m.
Fee: $395

In this advanced 18-hour course, expand on your knowledge of 3-D commands through modeling projects. This is an intensive hands-on class for experienced AutoCAD users.

For AutoCAD 2016 courses, see page 2.

CAREER DEVELOPMENT

(NEW!) XCRS-034 Effective Job Search Planning
Section W01 (Old Westbury)
Thursday: January 28; 6:00 – 9:00 p.m.
Fee: $75

In this workshop, participants will examine the entire job search process and learn to build a sound, organized job search plan. They will also learn how to effectively monitor and evaluate their progress to stay on track towards achieving their ultimate goal—finding a good job as quickly as possible. The workshop facilitator will also explain various job search techniques and the results that can be expected from each, help participants create a dynamic self-introduction (“two-minute pitch”) and show them how to describe their career accomplishments in a way that will catch the eye of prospective employers.

(NEW!) XCRS-035 Networking
Section W01 (Old Westbury)
Thursday: February 25; 6:00 – 9:00 p.m.
Fee: $75

More than 80 percent of the people who find jobs find them through networking. Participants in this workshop will learn networking techniques designed to help them find job openings before they are advertised. They will also learn to identify potential networking partners, how to build and maintain networking relationships, and learn why networks fail. They will also be introduced to Internet networking resources, learn how to create a marketing plan, and develop a networking telephone script, email, and other networking tools to improve their ability to get information and advice that can help shorten their job search.

(NEW!) XCRS-036 Resume Preparation
Section W01 (Old Westbury)
Thursday: March 17; 6:00 – 9:00 p.m.
Fee: $75

In this workshop, participants will be introduced to different resume styles and formats and learn general guidelines for preparing them. They will learn about the...
sections of a resume and where they should be placed, how to highlight their skills and expertise, and how to prepare your W-A-R stories (accomplishment statements) to distinguish themselves from other qualified candidates.

(NEW!) XCRS-037 Job Search Letters That Get Results
Section W01 (Old Westbury)
Thursday: April 14; 6:00 – 8:00 p.m.
Fee: $75
The ability to communicate clearly and effectively is a key factor in landing a new job. In this workshop, participants will learn the purpose and guidelines for preparing cover letters, marketing letters, and follow-up letters, including a “revival” letter that will help differentiate them from other applicants, overcome objections that may have arisen during an interview, and potentially turn a rejection into a job offer or a networking opportunity. The facilitator will also provide tips for getting cover letters through automated scanning systems and human screeners. Each participant will receive templates for creating their own cover, follow-up, and revival letters that they can easily customize to fit any job application, networking meeting, and interview.

(NEW!) XCRS-038 Effective Interview Skills
Section W01 (Old Westbury)
Thursday: May 5; 6:00 – 9:00 p.m.
Fee: $75
In this workshop participants will learn what it takes to put themselves in the best possible position to have a successful interview. The workshop leader will introduce them to the different types of interviews that they may encounter during their job search, and detail the purpose and dynamics of each type of interview. Participants will also learn about the different interviewing styles they may face, the types of challenging questions they may be asked and how to handle them successfully, and the questions that they need to ask. In addition, they will learn what they need to do before, during, and after the interview in order to position themselves as the best candidate for the position.

(NEW!) XCRS-039 Interview Practice Session
Section W01 (Old Westbury)
Thursday: May 19; 6 – 9 p.m.
Fee: $75
(Up to 15 participants – must be multiple of 3. Participants are asked to bring a copy of their resume and come prepared for an interview.) This workshop greatly enhances participants’ ability to find a new job by providing them with a complete 360° perspective of an interview. Specifically, with oversight by the facilitator, participants will be divided into teams of 3 and take turns playing each of 3 roles: the applicant, the interviewer, and the observer.

XEVPP-003 Planning Special Events and Parties as a Part-time or Full-time Career
Section W01 (Old Westbury)
Saturday: April 9; 9 a.m. – 4 p.m.
Section W02 (Old Westbury)
Saturday: May 7; 9 a.m. – 4 p.m.
Fee: $75
Planning special events and parties is one of the hottest careers. Individuals, companies, and organizations are always seeking new ways to make their promotions memorable. This course, designed for the newcomer or experienced party planner, covers how to select an exciting site, how to publicize your event, how to deal with suppliers, how to handle celebrity relations, and how to avoid traps for the unwary. It will cover qualifications needed to enter this potentially lucrative field and how much to charge for your services.

DANCE
XATV-044 Rhythm Dancing for Social Occasions
Section W01 (Old Westbury)
Thursdays: February 25, March 3, 10, 17, 31, April 7, 14, 21; 7:00 – 8:45 p.m.
Fee: $80 per person
This course is intended for students who already possess prior experience in swing and cha cha basics who wish to become more proficient in these dances. The course is designed to reinforce the basic skill set necessary to dance swing and cha cha more elegantly. As the course progresses, it will move into higher-level figures and associated techniques. The instructor will utilize best practice syllabus-based techniques. Emphasis will be placed on timing, feet positions, dance positions, footwork, and lead and follow. The instructor will break down and demonstrate all dance figures and combine them to form amalgamated routines. The dances covered in this course are swing and cha cha to syncopated rhythm. These dances can be danced at many social venues to time-honored classics as well as contemporary music. You will get high mileage from both of these dances. Join us at NYIT and sharpen your dance skills. Enrollment with a partner is recommended, however, singles are welcome. Participants should wear comfortable clothes and leather bottom shoes. Sneakers or rubber bottom shoes are not recommended. Instructor: Richard Fiore, Dual Licentiate, US Imperial Society of Teachers of Dancing

DRIVER EDUCATION
For course information, please see page 21.
ENGINEERING

PROFESSIONAL DEVELOPMENT FOR ENGINEERS

NYIT’s Extended Education program offers the courses that will 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-171 What’s Next, Flying Cars? The Roadable Aircraft Story
Section: W01 (Old Westbury)
Friday: April 29; 9:00 a.m. – 6:00 p.m.
Fee: $235
PDH: 8
For course description, please see page 7.

(NEW!) XARC-170 Maginot Line: Triumph of Military Engineering
Section: W01 (Old Westbury)
Saturday: February 27; 9:00 a.m. – 6:00 p.m.
Fee: $235
PDH: 8
For course description, please see page 7.

(NEW!) XARC-169 Audubon House: From Here to Sustainability
Section: M01 (Manhattan)
Thursday: February 4; 6:00 – 9:00 p.m.
Fee: $135
PDH: 3
For course description, please see page 7.

(NEW!) XARC-168 Design Outlaws: Inventing the Future
Section: W01 (Old Westbury)
Tuesday: March 8; 6:00 – 11:00 p.m.
Section: M01 (Manhattan)
Thursday: April 7; 6:00 –11:00 p.m.
Fee: $165
PDH: 5
For course description, please see page 8.

(NEW!) XARC-167 Whole Lotta Shakin’ Goin’ On: A History of Seismicity
Section: W01 (Old Westbury)
Saturday: February 6; 9:00 a.m. – 6:00 p.m.
Fee: $235
PDH: 8
For course description, please see page 8.

XARC-166 Boeing 747-100: The Plane That Changed the World
Section: W01 (Old Westbury)
Saturday: March 5; 9:00 a.m. – 6:00 p.m.
Fee: $235
PDH: 8
For course description, please see page 8.

XARC-165 TVA: The Great Experiment
Section: W01 (Old Westbury)
Saturday: March 12; 9:00 a.m. – 6:00 p.m.
Fee: $235
PDH: 8
For course description, please see page 8.

XARC-161 Metal Lumber: A History
Section: W01 (Old Westbury)
Tuesday: February 9; 6:00 – 11:00 p.m.
Section: M01 (Manhattan)
Thursday: March 3; 6:00 – 11:00 p.m.
Fee: $165
PDH: 5
For course description, please see page 9.

XARC-162 SCROB: Pennsylvania’s First Green Building
Section: W01 (Old Westbury)
Tuesday: February 23; 6:00 – 9:00 p.m.
Section: M01 (Manhattan)
Thursday: March 10; 6:00 – 9:00 p.m.
Fee: $135
PDH: 3
For course description, please see page 9.

XARC-163 Going Up! Going Down! A History of the Otis Elevator Company
Section: W01 (Old Westbury)
Saturday: January 30; 9:00 a.m. – 6:00 p.m.
Fee: $235
PDH: 8
For course description, please see page 9.

XARC-164 Grand Coulee Dam and the Planned Promised Land
Section: W01 (Old Westbury)
Saturday: April 2; 9:00 a.m. – 6:00 p.m.
Fee: $235
PDH: 8
For course description, please see page 9.

XARC-090 Light Gauge Metal Framing: A Sustainable Alternative to Wood
Section: W01 (Old Westbury)
Tuesday: April 5; 6:00 p.m. – 10:00 p.m.
Section: M01 (Manhattan)
Thursday: May 5; 6:00 p.m. – 10:00 p.m.
Fee: $135
PDH: 4
For course description, please see page 9.

XARC-160 Mr. Lincoln’s Tunnel
Section: W01 (Old Westbury)
Tuesday: April 12; 6:00 – 11:00 p.m.
Section: M01 (Manhattan)
Thursday: May 12; 6:00 – 11:00 p.m.
Fee: $165
PDH: 5
For course description, please see page 9.

XARC-159 Transcontinental Railroad: Uniting the United States
Section: W01 (Old Westbury)
Saturday: January 23; 9:00 a.m. – 6:00 p.m.
Fee: $235
PDH: 8
For course description, please see page 10.

XARC-158 Penn Station: Fall From Grace
Section: W01 (Old Westbury)
Saturday: February 13; 9:00 a.m. – 6:00 p.m.
Fee: $235
PDH: 8
For course description, please see page 10.
XARC-157 Woolworth Building: Cathedral in the Clouds
Section: W01 (Old Westbury)
Saturday: April 9; 9:00 a.m. – 6:00 p.m.
Fee: $235
PDH: 8
For course description, please see page 10.

XARC-156 Mr. Holland's Tunnel
Section: W01 (Old Westbury)
Tuesday: January 26; 6:00 – 11:00 p.m.
Section: M01 (Manhattan)
Thursday: February 11; 6:00 – 11:00 p.m.
Fee: $165
PDH: 5
For course description, please see page 10.

XARC-155 Conquest of the Hudson
Section: W01 (Old Westbury)
Sunday: February 7; 9:00 a.m. – 6:00 p.m.
Section: W02 (Old Westbury)
Saturday: April 16; 9:00 a.m. – 6:00 p.m.
Fee: $235
PDH: 8
For course description, please see page 10.

XARC-147 Five-By-Five: The Making of the Pentagon
Section: M01 (Manhattan)
Tuesday: February 16; 6:00 – 11:00 p.m.
Section: M01 (Manhattan)
Thursday: February 18; 6:00 – 11:00 p.m.
Fee: $165
PDH: 5
For course description, please see page 10.

XARC-146 Road of Tomorrow: The Pennsylvania Turnpike
Section: W01 (Old Westbury)
Saturday: April 23; 9:00 a.m. – 3:00 p.m.
Fee: $175
PDH: 6
For course description, please see page 10.

XARC-145 Distinctly Different or Dysfunctional? The San Francisco Federal Building
Section: W01 (Old Westbury)
Tuesday: March 15; 6:00 – 9:00 p.m.
Section: M01 (Manhattan)
Thursday: February 25; 6:00 – 9:00 p.m.
Fee: $135
PDH: 3
For course description, please see page 11.

XARC-144 Touching the Earth Lightly: The U.S. 20 Iowa River Bridge
Section: M01 (Manhattan)
Thursday: March 17; 6:00 – 9:00 p.m.
Fee: $135
PDH: 3
For course description, please see page 11.

XARC-143 Solar Hemicycle: Frank Lloyd Wright's Jacobs II Passive Solar House
Section: M01 (Manhattan)
Thursday: March 31; 6:00 – 9:00 p.m.
Fee: $135
PDH: 3
For course description, please see page 11.

XARC-142 Flying Windmill: The Gyroplane Story
Section: W01 (Old Westbury)
Saturday: April 30; 9:00 a.m. – 6:00 p.m.
Fee: $235
PDH: 8
For course description, please see page 11.

XARC-141 Othmar Ammann and the Great Gray Bridge
Section: W01 (Old Westbury)
Saturday: May 7; 9:00 a.m. – 6:00 p.m.
Fee: $235
PDH: 8
For course description, please see page 11.

XARC-140 Frank Lloyd Wright's House of Wax
Section: W01 (Old Westbury)
Saturday: May 14; 9:00 a.m. – 6:00 p.m.
Fee: $235
PDH: 8
For course description, please see page 11.

XARC-139 Mighty Mac: Bridging the Mackinac Straits
Section: M01 (Manhattan)
Wednesday: February 17; 6:00 – 11:00 p.m.
Fee: $165
PDH: 5
For course description, please see page 11.

XARC-137 Normandie: Ship of Dreams
Section: W01 (Old Westbury)
Saturday: May 21; 9:00 a.m. – 6:00 p.m.
Fee: $235
PDH: 8
For course description, please see page 12.

XARC-135 When Boats Had Wings
Section: W01 (Old Westbury)
Sunday: April 17; 9:00 a.m. – 6:00 p.m.
Fee: $235
PDH: 8
For course description, please see page 12.

XARC-134 Bridging San Francisco Bay
Section: W01 (Old Westbury)
Sunday: May 1; 9:00 a.m. – 6:00 p.m.
Fee: $235
PDH: 8
For course description, please see page 12.

XARC-133 Spanning the Golden Gate
Section: W01 (Old Westbury)
Saturday: February 20; 9:00 a.m. – 6:00 p.m.
Fee: $235
PDH: 8
For course description, please see page 12.
NON-CREDIT COURSES

XARC-129 Sydney Opera House: Splendid Geometry
Section: W01 (Old Westbury)
Sunday: April 3; 9:00 a.m. – 6:00 p.m.
Fee: $235
PDH: 8
For course description, please see page 12.

XARC-130 Gateway Arch: Monument to a Dream
Section: W01 (Old Westbury)
Sunday: April 10; 9:00 a.m. – 6:00 p.m.
Fee: $235
PDH: 8
For course description, please see page 12.

XARC-131 Grand Central: Grand by Design
Section: W01 (Old Westbury)
Sunday: April 24; 9:00 a.m. – 6:00 p.m.
Fee: $235
PDH: 8
For course description, please see page 13.

XARC-138 Mach 1 & Beyond: The Quest for Supersonic Flight
Section: M01 (Manhattan)
Tuesday: March 1; 6:00 – 11:00 p.m.
Section: M01 (Manhattan)
Thursday: April 14; 6:00 – 11:00 p.m.
Fee: $165
PDH: 5
For course description, please see page 13.

XARC-126 Hindenburg: Last of the Great Airships
Section: W01 (Old Westbury)
Sunday: May 8; 9:00 a.m. – 6:00 p.m.
Fee: $235
PDH: 8
For course description, please see page 13.

XARC-125 Rockefeller Center: City Within a City
Section: M01 (Manhattan)
Thursday: April 21; 6:00 – 11:00 p.m.
Fee: $165
PDH: 5
For course description, please see page 13.

XARC-150 River of Steel: New York’s First Subway
Section: W01 (Old Westbury)
Sunday: May 15; 9:00 a.m. – 6:00 p.m.
Fee: $235
PDH: 8
For course description, please see page 13.

XARC-149 Underground: How the Tube Shaped London
Section: W01 (Old Westbury)
Tuesday: March 29; 6:00 – 11:00 p.m.
Section: M01 (Manhattan)
Thursday: April 28; 6:00 – 11:00 p.m.
Fee: $165
PDH: 5
For course description, please see page 13.

XARC-122 Building the Brooklyn Bridge: An Epic for the Age
Section: W01 (Old Westbury)
Sunday: March 13; 9:00 a.m. – 6:00 p.m.
Fee: $235
PDH: 8
For course description, please see page 13.

XARC-121 Unisphere: Miracle in the Meadow
Section: W01 (Old Westbury)
Tuesday: April 19; 6:00 – 11:00 p.m.
Section: M01 (Manhattan)
Thursday: January 28; 6:00 – 11:00 p.m.
Fee: $165
PDH: 5
For course description, please see page 14.

XARC-118 Sydney Harbor Bridge: The Giant Coat Hanger
Section: W01 (Old Westbury)
Tuesday, April 26; 6:00 – 11:00 p.m.
Section: M01 (Manhattan)
Thursday: May 19; 6:00 – 11:00 p.m.
Fee: $165
PDH: 5
For course description, please see page 14.

XARC-151 Mr. Eiffel’s Tower
Section: W01 (Old Westbury)
Tuesday: May 3; 6:00 – 11:00 p.m.
Fee: $165
PDH: 5
For course description, please see page 14.

XARC-116 Chrysler Building: Race to the Sky
Section: W01 (Old Westbury)
Tuesday: May 10; 6:00 – 11:00 p.m.
Fee: $165
PDH: 5
For course description, please see page 14.

XARC-111 Expanded Blueprint Reading
Section: W01 (Old Westbury)
Tuesday March 8; 9:00 a.m. – 5:00 p.m.
Section: M01 (Manhattan)
Saturday: April 9; 9:00 a.m. – 5:00 p.m.
Fee: $205
PDH: 7
For course description, please see page 14.

XARC-107 Frank Lloyd Wright: America’s Architect
Section: W01 (Old Westbury)
Tuesday: May 17; 6:00 – 10:00 p.m.
Fee: $135
PDH: 4
For course description, please see page 14.
XARC-109 I Have Seen the Future: The New York World’s Fair of 1939/40
Section: W01 (Old Westbury)
Tuesday: February 2; 6:00 – 10:00 p.m.
Fee: $135
PDH: 4
For course description, please see page 14.

XARC-102 Solar PV and Thermal Essentials
Section: M01 (Manhattan)
Tuesday and Thursday: March 8, 10; 6:00 – 9:00 p.m.
Fee: $175
PDH: 6
For course description, please see page 15.

XARC-152 Empire State Building: Monarch of the Sky
Section: W01 (Old Westbury)
Sunday: February 28; 9:00 a.m. – 6:00 p.m
Fee: $235
PDH: 8
For course description, please see page 15.

XARC-153 Magnificent Ambition: World Trade Center
Section: W01 (Old Westbury)
Sunday: January 31; 9:00 a.m. – 6:00 p.m.
Fee: $235
PDH: 8
For course description, please see page 15.

XARC-154 Town and Country: A Garden City for America
Section: W01 (Old Westbury)
Sunday: February 21; 9:00 a.m. – 6:00 p.m.
Fee: $235
PDH: 8
For course description, please see page 15.

XARC-058 Insulation in Sustainable Design
Section: W01 (Old Westbury)
Tuesday: February 23; 6:30 – 8:30 p.m.
Fee: $65
PDH: 2
For course description, please see page 15.

XARC-050 Blueprint Reading
Section W01 (Old Westbury)
Tuesday: April 5; 6 – 9 p.m.
Fee: $125
PDH: 3
For course description, please see page 15.

XARC-028 Universal Design: Accessible and Usable Buildings
Section: W01 (Old Westbury)
Saturday: April 2; 9:30 a.m. – 1:30 p.m.
Fee: $135
PDH: 4
For course description, please see page 15.

TEST PREPARATION

ARCHITECTURAL REVIEW EXAM PREPARATION

XARC-148 ARE Building Systems Review
Section: W01 (Old Westbury)
Tuesdays: March 29, April 5, 12, 19; 6 – 9 p.m.
Fee: $345
As a review for the ARE 4.0 section, this course covers key words and basic system design. Topics include mechanical, electrical, plumbing, and fire protection systems as well as HVAC, environmental issues, acoustics, building codes, and other regulatory requirements in the design of mechanical, electrical, and specialty systems.

XARC-123 ARE Structural Systems Review
Section: W01 (Old Westbury)
Saturdays: April 2, 9, 16, 23, May 7; 9 a.m. – noon
Fee: $495
This course will cover the structural systems of building components such as beams, girders, columns, and footings. In addition, we will address wind and seismic framing and connections.

XARC-087 LEED Green Associate
Section: M01 (Manhattan)
Wednesday: April 6; 9:00 a.m. – 5:00 p.m.
Fee: $395
During this one day class you will get an overview of LEED and the test for Green Associate and LEED accreditation. The information given will go over aspects of the reference guide and other relevant information that will be on the test and the last section will be about the test and how to register, how long it will be, etc. “The course will provide participants with basic understanding of green building principles to take the Green Associate Exam.”

DRIVER EDUCATION

XEDU-002 Driver Education
Section: W01 (Old Westbury)
(For Spring 2016 dates and times, please call 800.886.NYIT.)
Fee: $625
The acquisition of safe driving skills and defensive driving awareness for private and parochial students who wish to earn the MV 285 “Blue Card,” which gives eligibility for a 10 to 15 percent discount on insurance premiums with most companies. This course qualifies those who successfully complete the course to apply for a senior driver’s license at age 17.
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Mail the form, along with your check or credit card information, to:

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Extended Education/Gerry House, Room 104
P.O. Box 8000
Old Westbury, NY 11568-8000

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Phone: Day                                                    Evening

Social Security number       Date of Birth

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Occupation                                                    Company Name

Course# | Section | Name of Course | Fee

Total

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