



BOSTON
ARCHITECTURAL
COLLEGE

FALL 2017
02 SESSION

CONTINUING EDUCATION CATALOG

Certificates + Individual Courses

CONTINUING EDUCATION: CERTIFICATES AND INDIVIDUAL COURSES

The Boston Architectural College (BAC) is a fully accredited nonprofit college that has been educating architects and designers for more than 125 years. In addition to traditional degree programs, the BAC also offers an enriching Continuing Education (CE) program with a variety of individual courses, as well as certificate programs in Digital Design and Visualization, and Sustainable Design. Students have the opportunity to grow their knowledge, expand their professional profiles, and develop new skills.

The BAC's continuing education community is comprised of individuals diverse in age, occupation and experience, enriching each class with fresh perspectives. Practicing design professionals enhance their skills or earn required Continuing Education credits; certificate students prepare to start a first, or recently discovered career, and design enthusiasts take individual courses for pleasure.

Whether onsite or online, every CE course provides an opportunity to learn from practicing professionals who are leaders in their fields. Students taking onsite classes benefit from our evening and daytime offerings, our vibrant, urban location, and our proximity to local design firms, galleries, upscale interior showrooms, and more. For students participating in online classes and programs, our instructor-led courses generate ongoing academic conversations.

CE students are encouraged to enroll directly into courses via the BAC's website. For additional information on course offerings and certificate programs, you may visit <http://the-bac.edu/> or contact Continuing Education.

CONTINUING EDUCATION CONTACT INFORMATION

EMAIL: ce@the-bac.edu

MAIN PHONE: 617-585-0135

MAILING ADDRESS:

Registrar's Office
Boston Architectural College
320 Newbury Street
Boston, MA 02115

Beverly Verla, Registration Coordinator

DIRECT PHONE: 617-585-0103

PHYSICAL ADDRESS:

Student Services Suite
951 Boylston Street
Basement Level
(Accessed by the Elevator Only)

CERTIFICATE PROGRAMS

DIGITAL DESIGN AND VISUALIZATION CERTIFICATE

The Certificate Program in Digital Design and Visualization allows students to build expertise in computer-based design technologies and learn skills relevant to the evolving trends of current-day design practices. Graduates of this certificate are equipped with the latest software applications and knowledge for use in the design technology work environment.

Four classes are required to complete the certificate. To fulfill this requirement, students select from any of the courses offered in the area of Digital Design and Visualization. Eligible courses are listed here: <http://the-bac.edu/academics/certificates-and-individual-courses/digital-design-and-visualization>. Eligible courses are noted and can be found in the Digital Media & Media Arts section.

SUSTAINABLE DESIGN GRADUATE CERTIFICATE

The BAC's Sustainable Design Certificate is the oldest academic credential in this subject in the United States. It includes a flexible range of courses from The Sustainable Design Institute.

To earn the certificate, students must complete six courses in the program and maintain a cumulative B- average. Certificate course requirements can be found here: <http://the-bac.edu/academics/certificates-and-individual-courses/the-sustainable-design-institute/sustainable-design-certificate>.

The Sustainable Design Institute offers over 30 eight-week, online, graduate-level courses in sustainable design principles and practices. A bachelor's degree is required for enrollment in the certificate program. Students who do not have a bachelor's degree should contact us.

CERTIFICATE PROGRAM ENROLLMENT

To enroll in a current BAC Certificate Program, the following enrollment materials are required. Please submit these enrollment requirements to Continuing Education in the Registrar's Office.

DIGITAL DESIGN & VISUALIZATION CERTIFICATE

Enrollment Requirements:

1. [Certificate Enrollment Form](#)
2. \$50 Non-refundable Enrollment Fee

SUSTAINABLE DESIGN GRADUATE CERTIFICATE

Enrollment Requirements:

1. [Certificate Enrollment Form](#)
2. \$50 Non-refundable Enrollment Fee
3. Official Undergraduate or Graduate Transcript

ADDITIONAL INFORMATION FOR CERTIFICATE STUDENTS CAN BE FOUND BY VISITING [CURRENT CERTIFICATE STUDENTS](#).

REGISTRATION AND FINANCIAL INFORMATION

REGISTERING FOR COURSES

Students are encouraged to register online for Continuing Education courses. The online registration portal (Self-Service) may be found via the BAC's website: <https://selfservice.the-bac.edu/selfservice/Home.aspx>. All returning students should have login information. Questions regarding login credentials may be directed to the BAC's helpdesk at help@the-bac.edu or 617.585.0191. New students should create an account within the database.

After accessing their accounts, students should select the Register for Courses tab, and select Continuing Education Registration. Students may search for courses either by course number or semester. Once the desired course has been located, it may be added to the student's cart. The student may then select additional courses, or finalize the registration. Please note that select courses carry pre-requisite requirements. Only those students that have met the pre-requisite requirement or have obtained permission from the BAC, may enroll in a course without meeting the pre-requisite requirement. Payment in full is due at the point of registration.

In addition to online registration, students may also submit a registration form to Continuing Education through email or in-person. The [CE Course Registration Form](#) can be found on the BAC's website, and may be submitted via email to ce@the-bac.edu or in-person at our office in the Student Services Suite.

FINANCIAL AND POLICY INFORMATION

TUITION AND FEES

Full payment of tuition and fees is required at the time of registration. Pricing information is available on the BAC's website. Payments may be made online by credit card and electronic check. Students utilizing a third party payment vendor, such as VA Benefits or a private loan company, should contact Continuing Education prior to enrolling.

DISCOUNTS

Graduates of BAC degree and certificate programs may take Continuing Education courses at 50% of the current price. Individuals 60 years of age or older receive a discount of 10% on tuition for courses. Discounts cannot be applied electronically via Self-Service. Students eligible for a tuition discount need to complete and return the [CE Course Registration Form](#) with payment information included.

DROPPING A COURSE OR WITHDRAWALS

Students wishing to drop or withdraw from a course must do so by submitting a request in writing to Continuing Education by the published deadlines on the [Academic Calendar](#). Non-attendance in a course does not constitute a withdrawal or course drop.

REFUNDS

Refunds are processed upon the submission of an [Add/Drop form](#), and pro-rated based on when the request is received by the Registrar's office. Courses may be dropped with no financial penalty prior to the start of classes. After the first class, refunds are processed based on the published refund schedule. Only those courses dropped prior to or during the published Add/Drop period are considered eligible for a refund. Courses dropped after the drop period has ended are considered withdrawals. Refunds are not permitted for withdrawals. Refunds are issued within 2–3 weeks, will appear in the same mode as the original payment, and are subject to a \$25.00 non-refundable fee. For specific refund percentages and policies, please visit the "Certificate & Non-Degree Students" section on our [Tuition Refund Policies](#) page.

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DIGITAL MEDIA & MEDIA ARTS

DME2002: DESIGN PERSPECTIVE DRAWING

This course introduces students to both freehand and mechanically generated perspectives. The initial sessions will discuss historical concepts from the renaissance before engaging in plan, elevation and section perspectives. The course will end with the study of alternate vanishing points, and the development of rendered shades and shadows. Students will develop one and two-point perspectives, and interior and exterior views.

1.5 Credits, Lecture, \$960

Section	Time	Day	Dates
BC	4:00-7:00pm	Tuesday	Oct. 23-Dec. 16

DME2021: DIGITAL PORTFOLIO

This course will study the fundamentals of integrating text, typography and images into visual presentations. Students will learn the synergy between Adobe applications like Illustrator, Photoshop, and InDesign and will explore the principles of graphic design, publishing, and electronic file preparation. Students will leave this course prepared to develop a real-life project from concept to a final printed piece.

FULFILLS: Digital Design & Visualization Certificate Required Elective

1.5 Credits, Lecture, \$960

Section	Time	Day	Dates
BC	4:00-7:00pm	Tuesday	Oct. 23-Dec. 16

DME2023: PHOTOSHOP – DIGITAL IMAGING AND EDITING II

This project-oriented course builds upon the students' basic knowledge of Photoshop to explore a wider breadth of electronic imaging technology and its applications in design. Students are encouraged to use an experimental approach and to stretch the boundaries of the medium. Projects begin with digital image creation using sources such as digital cameras, video frame-grabbing and freehand drawing. As they develop their compositions, students explore manipulation, processing, and editing of the images using diverse programs. The course is intended to question both the aesthetic and technical limits of electronic image-making while building visual and aesthetic skills through frequent critical reviews of projects.

PRE-REQUISITE: DME2022: PHOTOSHOP – DIGITAL IMAGING AND EDITING I **or**
DME2024: PHOTOSHOP: ELECTRONIC IMAGING FOR DESIGNERS

FULFILLS: Digital Design & Visualization Certificate Required Elective

1.5 Credits, Lecture, \$960

Section	Time	Day	Dates
AC	7:15-10:15pm	Thursday	Oct. 23-Dec. 16

DME2024: PHOTOSHOP – ELECTRONIC IMAGING FOR DESIGNERS

This is an introductory course in Adobe Photoshop. Students will apply electronic image editing to adjusting and improving photographs, creating photomontages and merging CAD and photographic elements to create architectural renderings. The course begins with basic techniques such as using the toolbox, making and saving selections, photo retouching and applying color; then moves on to layers, masks, copying and pasting, and digital montages.

FULFILLS: Digital Design & Visualization Certificate Required Elective

1.5 Credits, Lecture, \$960

Section	Time	Day	Dates
AC	1:00-4:00pm	Friday	Oct. 23-Dec. 16

DME2034: RHINO 1: 3D DESIGN FOR LANDSCAPE ARCHITECTURE

This course is an introduction to Rhino 3D modeling software, with instruction and applications focused specifically on the landscape. Utilizing a minimal number of guide poly-lines, students will construct digital models that range from relatively

simple to complex. The mathematical concepts of lofting, sweeping, cutting, splitting, and Boolean operations will be addressed as well as methods of curve construction such as slicing, sectioning, and continuous contours. Terrain and topography, site design, development of urban context models, and real-world georeferencing of site information will be among the topics covered in the course.

1.5 Credits, Lecture, \$960

Section	Time	Day	Dates
BC	4:00-7:00pm	Tuesday	Oct. 23-Dec. 16

DME2037: RENDERING WITH V-RAY

This course is an introduction to the theory and techniques to produce photorealistic renderings using the rendering plugin V-Ray. V-Ray is compatible with several 3D modeling programs including Rhino, Sketchup, Revit, and 3ds Max. Students will learn to apply rendering techniques to create professional, photorealistic imagery and visual effects. This course covers critical V-Ray concepts including materials, textures, lighting, color mapping, reflections, and camera controls. Prior knowledge of 3D modeling software is recommended.

FULFILLS: Digital Design & Visualization Certificate Required Elective

1.5 Credits, Lecture, \$960

Section	Time	Day	Dates
AC	7:15-10:15pm	Tuesday	Oct. 23-Dec. 16

DME2042: AUTOCAD I: 2D DRAFTING

This course in computer-aided drafting introduces the basic concepts and operation of AutoCAD, emphasizing two-dimensional computer-aided drafting concepts, conventions and documentation production. The course provides hands-on instruction in AutoCAD. Students will have to complete weekly assignments, which will require approximately three hours of work to be completed outside of class, plus short readings. This course covers AutoCAD for windows only.

FULFILLS: Digital Design & Visualization Certificate Required Elective

1.5 Credits, Lecture, \$960

Section	Time	Day	Dates
2ZC	Online	Online	Oct. 23-Dec. 16

DME2047: 3D STUDIO MAX 2: RENDERING AND ANIMATION

This is a second level course for individuals already having a basic knowledge of 3ds Max. Topics covered in this course will focus on advanced modeling techniques and visualization workflows. 3ds Max will be used to generate detailed, geometrically accurate 3D models. The V-Ray rendering plugin will be used to generate photo-realistic renderings which depict lighting, materiality, and atmosphere. Techniques of lighting, creating atmospheric effects, placing cameras, choosing materials and setting their properties, and applying textures will be covered. Students may use provided building models for their rendering and animation assignments or may work from models they have built in previous classes. Assignments will culminate in a set of presentation-quality rendered images created using the V-Ray rendering plugin.

PRE-REQUISITE: DME2046: 3D STUDIO MAX I: MODELING AND RENDERING

FULFILLS: Digital Design & Visualization Certificate Required Elective

1.5 Credits, Lecture, \$960

Section	Time	Day	Dates
AC	7:15-10:15pm	Wednesday	Oct. 23-Dec. 16

DME2063: AUTODESK REVIT: RESIDENTIAL DESIGN

This course will offer an introduction to creating and managing a BIM (Building Information Model) using Autodesk Revit. It will also facilitate in the greater understanding of Building Information Modeling as it pertains to the industry as a whole. Using Revit as a tool, the course will teach the fundamentals needed to effectively produce and manage a “working” BIM, in terms of design and constructability. The course will also teach some finer points of the program and how they can be used to develop the BIM further. Please note: Revit requires the Windows Operating System to run; students will need to have access to Windows in order to use Revit.

FULFILLS: Digital Design & Visualization Certificate Required Elective

1.5 Credits, Lecture, \$960

Section	Time	Day	Dates
2ZC	Online	Online	Oct. 23-Dec. 16

SUSTAINABLE DESIGN

SUS2014: SUSTAINABLE DESIGN AND PRESERVATION

As the art and science of sensitively adapting historic buildings for continued and new uses, preservation is inherently a sustainable practice. Learn how old buildings were built with features that conserve energy and create a comfortable environment. Develop a framework for evaluating energy-saving options for historic buildings and the special considerations they require. Build your knowledge of current best practices in the field regarding windows, insulation, renewables and more. This course will help you design energy improvements that meet historic preservation guidelines whether you're trying to comply with regulatory requirements in a local design review process or federally funded project, or just want to promote the long term sustainability of historic buildings. Discussion topics will include environmental quality, materials selection, and energy rating systems like LEED.

FULFILLS: Sustainable Design Certificate Required Elective

1.5 Credits, Lecture, \$1,539

Section	Time	Day	Dates
1ZC	Online	Online	Oct. 23-Dec. 16

SUS2015: THE URGENT AND HOPEFUL FUTURE OF SUSTAINABLE DESIGN

A review of the "cutting edge" of sustainable design including the evolution of mindset, processes and tools required for a sustainable future. Active engagement with the processes and systems of the living world yields: an understanding of wise action, the development of an aesthetic of beauty born from a unity of mind and nature, and the expansion of the context of design beyond the individual building. Examples include: Systems Theory, Integrated Design, Triple Bottom Line, the Precautionary Principle (mindset and process), and LEED, 2030 Challenge, Living Building Challenge, Permaculture, Biomimicry, Life-cycle analysis and Eco-Charrettes (tools).

FULFILLS: Sustainable Design Certificate Required Course

1.5 Credits, Lecture, \$1,539

Section	Time	Day	Dates
1ZC	Online	Online	Oct. 23-Dec 16

SUS2017: SOLAR ENERGY: DESIGN WITH THE SUN

The interaction of buildings and sunlight is rich and complex. This course will examine the many possibilities provided by the sun to power, light and heat our buildings. These possibilities are affected by geographic location, climate, building site, and building form, orientation, fenestration and thermal mass-all of which will be considered. Passive and active solar thermal systems, solar domestic hot water systems and photovoltaics will be studied along with design strategies to prevent unwanted solar gain in climates and seasons when that is a problem. The relative cost and benefits of different solar strategies will also be addressed.

FULFILLS: Sustainable Design Certificate Required Elective

1.5 Credits, Lecture, \$1,539

Section	Time	Day	Dates
1ZC	Online	Online	Oct. 23-Dec. 16

SUS2025: GREEN EXISTING BUILDINGS

The existing building stock is here and much of it is responsible for consuming energy, water and other resources at an unsustainable rate from both the environmental and the economic standpoints. Focusing on non-residential buildings, this course will examine the issues, techniques and processes that are involved in turning these buildings into sustainable consumers, whether through relatively simple retrofits or major renovations. Among the topics to be reviewed will be assessing existing

performance, instituting building commissioning, improving energy and water efficiency, limiting (re)construction waste, improving indoor environmental quality, supporting sustainable operations and considering renewable energy sources.

FULFILLS: Sustainable Design Certificate Required Elective

1.5 Credits, Lecture, \$1,539

Section	Time	Day	Dates
IZC	Online	Online	Oct. 23-Dec. 16

SUS2035: SUSTAINABLE COMMUNITIES: LAND USE, TRANSPORTATION AND PLANNING

This course will examine how communities across the nation are grappling with such smart growth issues as affordable housing, sprawl, urban revitalization, economic development, transportation investments, and open space protection. These issues are also collectively referred to as sustainable development, growth management or New Urbanism. The course will cover the history of sprawl and current policy debates about land use, urban design, regulation, and public and private investment. The course will feature critiques of specific development projects, tailored to the interests of students.

FULFILLS: Sustainable Design Certificate Required Elective

1.5 Credits, Lecture, \$1,539

Section	Time	Day	Dates
IZC	Online	Online	Oct. 23-Dec. 16

SUS2040: SUSTAINABLE DESIGN OF HEALTHCARE FACILITIES

Greening healthcare projects should be a no-brainer -what building type has occupants more deserving of a healthy space? Unfortunately, when people think of healthy spaces, hospitals are often among the last to come to mind. The intense resource requirements, code constraints, programmatic requirements and institutional culture can make green building a more significant challenge than with other typologies. This course explores the theories and practices of sustainable healthcare design, what it means to create a healthy and healing environment, and how to balance the complex demands of hospitals with those of the natural environment. Topics will include energy and water use intensity, toxicities in building materials, daylighting and opportunities for connections to nature, greening a healthcare campus, use of rating systems, and more.

FULFILLS: Sustainable Design Certificate Required Elective

1.5 Credits, Lecture, \$1,539

Section	Time	Day	Dates
IZC	Online	Online	Oct. 23-Dec. 16

SUS2049: DESIGN FOR SOCIAL RESILIENCE

This course introduces students to frameworks for considering and measuring the social impacts of design. Learning goals for the course are:

- Students will gain skills in identifying and assessing urban risk factors around a design project.
- Students will be introduced to the use of mapping techniques in the documentation and analysis of social resilience.
- Students will develop knowledge around identifying and engaging stakeholders.
- Students will study the processes of urban gentrification and its impacts on housing accessibility and equity.
- Students will learn existing guidelines and standards for social resilience including: JUST labeling, Living Building Challenge Equity Petal, LEED pilot credits, SEED Network etc.

FULFILLS: Sustainable Design Certificate Required Elective

1.5 Credits, Lecture, \$1,539

Section	Time	Day	Dates
IZC	Online	Online	Oct. 23-Dec. 16

HISTORIC PRESERVATION

HSP2010: CULTURAL HERITAGE TOURISM AND PLACEMAKING

Cultural heritage resources and tourism are important tools in the tool box of place-makers, preservationists, designers and economic development planners. A growing and responsible tourism industry can be a catalyst for deepening sense of place,

past and community which is the basis for revitalizing local economies. On most days more than two million Americans visit one of the 16,000 museums, heritage and environmental tourism destinations. There is a global tourism beauty contest underway that increasingly divides haves from the have-nots, destinations from pass-throughs, and places that generate buzz from places that get little respect, even from those who live there. The combined forces of globalization and homogenization are forcing cities, states, regions and locales to rethink how they present themselves. Image, while not everything, matters. An attractive user interface together with a coherent and compelling visitor experience based on authentic local content that is the key to generating buzz and the kind of visitor satisfaction that drives word of mouth - the cheapest and most effective marketing technique available. States and municipalities need a comprehensive cultural heritage strategy to build their reputations and sell their features.

This course will examine the history and practice of heritage tourism and the sense of place movement that give it renewed relevance. Topics considered include: the roles played by museums, thematic trails, historic sites, wayfinding and signage, historic preservation, social media and the networks of institutions, advocacy groups and stakeholders that advance the goals of heritage tourism. We'll review and discuss case studies that demonstrate the role of cultural resources in the revitalization of cities and towns. We will also discuss heritage tourism visionaries, the locavore movement, the role of art in placemaking, and the role of social media and digital technology in tourism and placemaking.

1.5 Credits, Lecture, \$1,539

Section	Time	Day	Dates
1ZC	Online	Online	Oct. 23-Dec. 16

LANDSCAPE ARCHITECTURE

TSM2012: MATERIALS AND METHODS: CONSTRUCTION DETAILS, APPLICATIONS AND ADMINISTRATION II

This course highlights landscape construction design and prepares students for detailing elements of constructed urban spaces, both as part of systematic city guidelines and as singular design elements. Contemporary and sustainable approaches and applications, including material selection and resourcefulness, aesthetic quality, durability, cost efficiency and cost-estimating, and construction means and methods are studied.

Lectures, readings and design vignettes expose students to thinking technically about design solutions. In class problems include detail sets pertaining to an entire constructed space that is tangible and measurable. Construction Documents and simple Specifications are studied. Students are expected to participate in field trips to observe built conditions, document and propose improvements; new construction cases are also explored, as is the construction administration process in the field.

PRE-REQUISITE: TSM2011: MATERIALS AND METHODS: CONSTRUCTION DETAILS, APPLICATIONS & ADMIN I

1.5 Credits, Lecture, \$960

Section	Time	Day	Dates
AC	7:15-10:15pm	Thursday	Oct. 23-Dec. 16