ARCHITECTURE ENGINEERING AUTOCAD (AEAC1-CE)

AEAC1-CE 8005 Introduction to Building Information Modeling (BIM) (0 Credits)
Learn the fundamentals of building information modeling (BIM), and see how this revolutionary process is transforming the design, construction, management, operation, and maintenance of buildings. The course features a series of lectures, discussion of case studies, and hands-on demonstrations of software. Explore topics including BIM principles, concepts, and tools; the business case for BIM; and its projected benefits regarding productivity, communications, collaboration, conflicts, errors, omissions, changes, rework, RFIs, field coordination, prefabrication, quantity takeoffs, and cost estimation. Discuss scheduling and energy analysis, and gain an overall understanding of design intent and construction project quality.
Grading: SPS Non-Credit Graded
Repeatable for additional credit: Yes

AEAC1-CE 8100 Introduction to Computer-Aided Design (1 Credit)
Learn the fundamental skills necessary for <i>AutoCAD Professional Level</i> courses in this intensive introductory course. Topics include the user interface, basic drawing and editing techniques, and an overview of various CAD systems and their performance standards.
Grading: SPS Non-Credit Graded
Repeatable for additional credit: Yes

AEAC1-CE 8101 AutoCAD Professional Level I (3 Credits)
<p>Learn the fundamentals of AutoCAD in this hands-on course, and discover how to prepare 2D drawings for architecture, interior design, mechanical and structural engineering, and other design fields. Topics include the AutoCAD drawing interface; display commands; modify commands; CAD tools and drawing setup, including scale, coordinate systems, snaps, and grips; basic draw and edit command functions; layers; text; blocks; plotting; and printing basics.

Note: Registering at least two weeks prior to the start of the course date is highly recommended. Popular classes fill up quickly and more specialized classes need sufficient enrollment.

For general information about this course, please contact 212-992-3336.

If you are registered for an online course and are not able to access/view your course in NYU Classes, please note the following:</p>

     It may take at least 24 hours from the time you registered for your information to be transferred into NYU Classes.

     New students registering two days or LESS before the start date of the course may experience delayed access.

<p>For additional technical support, contact the IT Service Desk(available 24/7/365) at 212-998-3333or AskITS@nyu.edu.</p>
Grading: SPS Non-Credit Graded
Repeatable for additional credit: Yes

AEAC1-CE 8102 AutoCAD Professional Level II (3 Credits)
<p>Build upon the instructional material covered in <i>AutoCAD Professional Level I</i> and learn intermediate-level editing techniques. These techniques include hatching, polylines, dimensioning, cross-refs, paper space, grips, raster images, blocks, and other attributes. A demonstration of 3D design drawing also is included.

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Grading: SPS Non-Credit Graded
Repeatable for additional credit: Yes

AEAC1-CE 8104 AutoCAD Professional Level III (3 Credits)
<p>If you are an experienced 2D AutoCAD user, then take this hands-on course to acquire a comprehensive understanding of 3D space in AutoCAD. Topics include 3D objects and modeling concepts, surfaces versus solids, and 3D axonometric views versus perspective views. Learn how to change and use the user coordinate system to your advantage, to scan materials into rendered models, to create and revise materials, and to use existing images together with AutoCAD-generated objects.

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Grading: SPS Non-Credit Graded
Repeatable for additional credit: Yes

AEAC1-CE 8107 Revit Professional Level I (3 Credits)
<p>Learn the fundamentals of Autodesk Revit—from design through construction documentation. This hands-on, lab-based course provides an introduction to the tools and concepts of working with a fully parametric building modeler. Topics include starting Revit projects, defining new family types, working with roofs and floors, creating vertically compound walls, documenting the design, detailing with Autodesk Revit, and using Revit in a multiuser environment.

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Grading: SPS Non-Credit Graded
Repeatable for additional credit: Yes

AEAC1-CE 8109 Revit Professional Level II (3 Credits)
<p>Build upon the instructional material covered in <i>Revit Professional Level I</i> and acquire the skills to create a Revit project from the very beginning. Learn how to develop exterior and interior wall systems, roofs, ceilings, room and area plans, and detailing and annotations. The course also covers windows and stair creation, tagging and dimensioning, scheduling and sheet creation, and importing and exporting elements into projects. In addition, discuss how to work in a multiple-user environment.

<i>Note: Registering at least two weeks prior to the start of the course date is highly recommended. Popular classes fill up quickly and more specialized classes need sufficient enrollment.</i>

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Grading: SPS Non-Credit Graded
Repeatable for additional credit: Yes

AEAC1-CE 8111 Revit Professional Level III (3 Credits)
<p>Further your understanding of Revit in this third professional-level course. Learn how to customize project settings and systems families, create multiple design options in a single model, manipulate geometry visibilities with phasing and view templates, define complex geometries with conceptual massing and adaptive component families, and render and analyze your model using tools within Revit.

<i>Note: Registering at least two weeks prior to the start of the course date is highly recommended. Popular classes fill up quickly and more specialized classes need sufficient enrollment.</i>

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