

Professional Development Certificate

www.cel.sfsu.edu/autodesk/

Autodesk® Authorized Training Center/ Certification Center



The Power to Bring your Ideas to Life

SF State Extended Learning has been an Autodesk Authorized Training Center (ATC) since 1987 and is now also an Authorized Certification Center. Autodesk's designation is your assurance that the facility and quality of instruction meet the high standards of the developer.

As one of Northern California's longest established ATC's, we concentrate on providing students with up-to-date, high quality instruction, at a reasonable price. All of our faculty are Autodesk certified and help you to prepare for work in design, space planning, or drafting in the architectural, engineering and construction fields.

We offer a full range of AutoCAD classes including AutoCAD Levels I & II, Revit® Levels I & II, Revit® MEP, Inventor™, 3ds Max® Design 2010, AutoCAD® 3D Applications, Graphics Production with AutoCAD, AutoCAD LT®, Level I & II Project classes, and AutoCAD Standards for the Small Design Office.

We also offer Autodesk Certification examinations at the Associate and Professional levels, to help you increase your competitive edge.

GET AHEAD. GET CERTIFIED.

Autodesk Certified Associate or Autodesk Certified Professional

- industry standard
- validation of your skills
- listing in the certified professional database
- increase your competitive edge

See www.autodesk.com/certification for more information.

Free

Information Session

AUTODESK®

FRI., JAN. 15, 2010
4-5 PM

Come and learn how AutoCAD®, Revit®, 3ds Max® Design and several other software programs all fit into your future. See live examples as taught in class and take the opportunity to get your questions answered.

Faculty will be present on hand to answer questions.

RSVP online:

www.cel.sfsu.edu/autodesk/events.cfm

SF State Downtown Campus
835 Market St., 6th Floor, (Powell St. BART/Muni)

Autodesk®

Authorized Training Center
Authorized Certification Center

About Autodesk Programs

Autodesk provides comprehensive design, analysis, and documentation solutions that help teams boost productivity, increase quality, and be more competitive. Make efficiency a daily part of the job with AutoCAD® software, the drafting, detailing, and conceptual design leader. Meticulously refined with the draftsman in mind, AutoCAD 2010 propels day-to-day drafting forward with features that increase speed and accuracy while saving time and helps deliver an unmatched level of aesthetic precision and professionalism.

Autodesk provides state-of-the-art technology to firms and businesses that need to:

- stay on the cutting edge
- significantly boost design quality
- enhance productivity and improve coordination

On-Site/Customized Training

We can provide our standard classes at your site or customize courses to meet your special needs.

Classes can be taught one-on-one or for groups. For more details, please call (415) 817-4226 or email cflight@sfsu.edu.

Job Resources

Please visit our new Autodesk Job Board online at www.cel.sfsu.edu/autodesk/jobs, if you are a student seeking jobs or an employer who would like to post an opportunity for our students and professionals. There's also a section called Job Resources to help you find out more about this growing industry.

Autodesk® Certification Center Hours

- Mon. & Thurs.: 2-5 pm

Autodesk Certification

Autodesk certifications are a reliable validation of your skills and knowledge, and can lead to accelerated professional development, improved productivity, and enhanced credibility in your field. Each Autodesk certification level, Associate or Professional, signifies the experience and expertise of design professionals around the world.

For more information please check our website at www.autodesk.com/certification.

Open Lab Time

Students enrolled in courses receive 15 hours of free Open Lab time per hands-on class. Additional use of the lab beyond the 15 hours is subject to availability of computers. All of Autodesk software that is used in the certificate program is installed in the Open Lab.

- Mon. - Thurs., 12-9 pm
- Fri., 12-5 pm
- Sat., 10 am-5 pm

The Curriculum

REQUIRED COURSES

- AutoCAD Level I (Fundamentals)
- AutoCAD Level II (Advanced)
- AutoCAD® 3D Applications: Modeling & Rendering
- 3ds Max® Design 2010
- Graphics Production with AutoCAD

ELECTIVES COURSES

(Please choose one)

- AutoCAD Standards for the Small Design Office
 - Revit® I
 - Revit® II
 - Revit® MEP
 - Inventor™
- AutoCAD Level I Project
- AutoCAD Level II Project
- AutoCAD LT®

Required courses are best taken in the order listed. Students are responsible for completing all prerequisites prior to taking courses. AutoCAD Level I (Fundamentals) is the introductory course for the program.

Certificate Requirements

Students may take classes individually to enhance their personal goals or complete a full certificate. A certificate will be rewarded upon successful completion of Required and Elective classes, totaling a minimum of 110 hours (11 CEUs). Course fees are listed with each course in the catalog and online. Course materials are included in the course fees. Certificate requirements must be completed within a two-year period. Applications for Certificate of Completion are due, along with a \$50 non-refundable fee and an unofficial transcript once all courses have been completed and grades have been posted. Please see www.cel.sfsu.edu/autodesk/ to download an application. Mail all completed applications/transcripts to the Downtown Campus, attention Dylan Romero.

Benefits of Training

- One computer per person
- Most current hardware and Autodesk 2010 Ready
- Faculty are certified in the latest Autodesk software
- Certificate from Autodesk after successful completion of authorized courses
- Certificate of Completion option from SF State Extended Learning
- Open lab hours with each enrollment (15+ hours per course)
- Courses carry Continuing Education Units (CEUs)
- Access to student versions of Autodesk software

Enroll Early

To ensure you will receive course materials at the first class meeting, please enroll at least three weeks before the class begins. Students enrolling on the first day of class will be subject to late registration fees. Please see www.cel.sfsu.edu/register/spring2010/ for more detail.

Autodesk Class Reminders:

It is strongly recommended that students bring a flash drive to all classes including the first class meeting to save work in class. Course fees include all course materials.

AutoCAD Level I (2.4 CEU)

Platform: PC

Prerequisite: experience with Windows XP operating system. This course is designed for those who have never used AutoCAD or AutoCAD LT, or who have struggled to get started. It is also ideal for those who need a refresher course, or a course that fills in the gaps of limited AutoCAD experience. Beginning with an introduction to the software interface, this course familiarizes the student with pull-down menus, the ribbon, toolbars, and AutoCAD's unique command line. Students are immersed in real-time drafting operations as demonstrated by the instructor, who uses both professional experience and class exercises as references. All essential tools are taught to complete basic 2D projects, and properly present them for printing.

Instructor: Lillian Crist

Schedule Number 25108 ENGR 9069 Section A 01

- Tues. & Thurs., Feb. 2-25, 6-9 pm
- SF State DTC, 835 Market, 6th Floor
- \$825

Instructor: David Mlodzik

Schedule Number 25109 ENGR 9069 Section Z 02

- Wed., Mar. 3-24, 9 am-4 pm
- SF State DTC, 835 Market, 6th Floor
- \$825

AutoCAD Level II (2.4 CEU)

Platform: PC

Prerequisite: experience with Windows XP operating system; AutoCAD Level I or equivalent knowledge. This class is for those wanting greater productivity through the use of AutoCAD's more advanced 2D features, those working in group/networked environments, and those who are interested in basic AutoCAD customization. Productivity topics include the creation of block attributes, field objects, tables, dynamic blocks and template files. Attribute extraction, layer management, line weights, text and dimension styles, and the Sheet Set Manager are also covered. Group/network environment topics include external references, file paths, file/layer standards, and a discussion of large-scale project organization issues. Customization topics include macro writing, the Action Recorder, AutoLISP and VBA basics.

Instructor: Lillian Crist

Schedule Number 25111 ENGR 9070 Section Z 02

- Tues. & Thurs., Mar. 2-25, 6-9 pm
- SF State DTC, 835 Market, 6th Floor
- \$825

Instructor: David Mlodzik

Schedule Number 25110 ENGR 9070 Section Z 01

- Wed., Apr. 7-28, 9 am-4 pm
- SF State DTC, 835 Market, 6th Floor
- \$825

AutoCAD® 3D Applications: Modeling & Rendering (1.8 CEU)

Platform: PC

Prerequisite: AutoCAD Level I or equivalent experience with at least six months of daily use on AutoCAD. This class is for experienced AutoCAD users with strong knowledge of 2D drafting. The class begins with an introduction to AutoCAD's unique 3D workspace, followed by a thorough exploration of the extensive 3D navigation tools, including scene walkthroughs and flybys. Students then become familiar with a multitude of 3D modeling tools, with an emphasis on solid-model creation and editing. Other 3D concepts such as lights, cameras, and material creation and mapping are also covered. The course concludes with an in-depth look at rendering techniques and image output options.

Instructor: David Mlodzik

Schedule Number 25112 ENGR 9072 Section Z 01

- Tues.-Thurs., May 18-20, 9 am-4 pm
- SF State DTC, 835 Market, 6th Floor
- \$625

3ds Max® Design 2010 (1.2 CEU)

Platform: PC

Prerequisite: CAD experience with 3D modeling helpful but not necessary. This class is designed to acquaint the participants with the basic and intermediate level processes necessary to create 3D visualizations using Autodesk 3ds MAX Design software. We cover the process of importing an existing CAD 3D model or 2D floor plan or elevation, developing a 3D model in 3ds MAX Design, applying architectural materials, setting up lighting and shadow-casting, creating cameras, and rendering. Other topics covered include lighting a scene with radiosity/global illumination for both interior and exterior scenes, accurately analyzing environmental or artificial lighting, including manufacturer specifications in realistic materials, and creating animated walk-throughs.

Instructor: Lillian Crist

Schedule Number 25117 ENGR 9125 Section A 01

- Fri., May 7-14, 10 am-5 pm
- SF State DTC, 835 Market, 6th Floor
- \$435

Graphics Production with AutoCAD (1.2 CEU)

Platform: PC

Prerequisite: AutoCAD Level I or equivalent knowledge. This class bridges the gap from AutoCAD to illustration and web design, employing industry-standard tools for optimal graphics production. The student will create illustrations and will learn to identify which softwares and methods are most effective for a particular goal. While the primary softwares used in this course are AutoCAD and Adobe Photoshop, there will also be an overview of AutoCAD's import, export, and linking capabilities in conjunction with a variety of softwares. Basic techniques in Adobe Illustrator and Autodesk Impression softwares will be demonstrated. In Photoshop, styles, actions, and special effects will be practiced, while producing illustrations based on CAD line work. Other topics include extraction of a figure from a background, incorporating a rendering in a photo, photo correction, masking, simulation of fog, depth of field, and shadows.

Instructor: Lillian Crist

Schedule Number 25114 ENGR 9119 Section Z 01

- Fri., Apr. 23 & 30, 10 am-5 pm
- SF State DTC, 835 Market, 6th Floor
- \$435

New AutoCAD Standards for the Small Design Office (1.2 CEU)

Platform: PC

Prerequisite: AutoCAD Level I & II, or equivalent experience. In today's Architecture/Engineering/Construction industry, it is essential for design offices (and, increasingly, for construction firms) to have a working knowledge of AutoCAD. Nearly all of these offices at some point will need to create their own AutoCAD drawings. CAD standards are an indispensable component of a firm's effort to maximize consistency and efficiency in the creation of CAD documents.

This class is designed to help a design office or individual learn how to develop their own basic AutoCAD standards. Experience with AutoCAD is required. Students should be familiar with the following techniques (covered in the AutoCAD Level I and Level II courses): creation of layers, layer states, block attributes and annotative objects (dimension styles, text styles, multi-leader styles, and annotative drafting symbol blocks). Development of an office titleblock, a project cover sheet, a model-space base sheet and a paper-space plot sheet will be covered. Plotting strategies and the creation of a plot style table (for plotted pen weights) will be included.

Instructor: David Mlodzik

Schedule Number 25120 ENGR 9140 Section Z 01

- Fri., Apr. 9 & 16, 9 am-4 pm
- SF State DTC, 835 Market, 6th Floor
- \$435

Revit® (2 CEU)

Platform: PC

Prerequisite: experience with Windows XP operating system. Learn the latest CAD software in use by architects and building professionals Autodesk Revit. Revit frees you from learning how to draft and allows you to concentrate on design. This course introduces users to the software interface so you can navigate around the software and then guides you through a sample project, starting with the site plan all the way through to the finished drawing package. If you want to remodel your home, jump-start your career, learn a new skill, or learn more about architectural design, learn how to Revit.

Instructor: Elise Moss

Schedule Number 25115 ENGR 9120 Section A 01

- Sat., Jan. 30-Feb. 20, 10 am-4 pm
- SF State DTC, 835 Market, 6th Floor
- \$725

Instructor: Elise Moss

Schedule Number 25116 ENGR 9120 Section Z 02

- Sat., May 1-22, 10 am-4 pm
- SF State DTC, 835 Market, 6th Floor
- \$725

Revit® II (2 CEU)

Platform: PC

Prerequisite: Revit I; experience with Windows XP operating system. You've tasted the power and ease of Revit, now you're ready to move to the next level. This class is geared towards students who are interested in taking Autodesk's Revit Certification Test, CAD managers, dedicated designers, and Revit users who are looking to boost their productivity. Students should have taken the Revit Level One training or have used Revit for at least six months prior to taking this class. Revit is a 3D design software that is used by architectural professionals world-wide. There is a high industry demand for skilled professionals who know Revit.

Instructor: Elise Moss

Schedule Number 25118 ENGR 9129 Section Z 01

- Sat., Feb. 27-Mar. 20, 10 am-4 pm
- SF State DTC, 835 Market, 6th Floor
- \$725

Revit® MEP (1.8 CEU)

Platform: PC

Prerequisite: experience with Windows XP operating system; Revit I, or prior experience in Revit with instructor approval. Revit MEP is a mechanical, electrical, and plumbing system design tool, enabling enhanced coordination and rapid design within a building information model. Users are able to optimize systems engineering through data-driven system sizing and design. This class is geared towards students who have already taken the Revit Level I class or have Revit experience, but want to learn how to use the tools within Revit MEP to create their building models and documentation.

Instructor: Elise Moss

Schedule Number 25119 ENGR 9133 Section Z 01

- Sat., Mar. 27-Apr. 17, 10 am-5 pm (no class Apr. 13)
- SF State DTC, 835 Market, 6th Floor
- \$650

AutoCAD Level I Project (1.2 CEU)

Platform: PC

Prerequisite: AutoCAD Level I (Fundamentals), or equivalent experience by permission. Students who have completed AutoCAD Level I (or who have equivalent experience) may apply their skills in this hands-on, two-day workshop. The student will draw a small scale multi-sheet architectural project, utilizing the commands and techniques presented in the AutoCAD Level I class. The course concludes with the creation of a pdf file of the student's work, for use in showcasing skills learned or working toward a portfolio.

Instructor: David Mlodzik

Schedule Number 25107 ENGR 9002 Section A 01

- Fri., Feb. 26 & Mar. 5, 9 am-4 pm
- SF State DTC, 835 Market, 6th Floor
- \$435

AutoCAD Level II Project (1.2 CEU)

Platform: PC

Prerequisite: AutoCAD Level II (Advanced), or equivalent experience by permission. Students who have completed the AutoCAD Advanced course (or who have equivalent experience) may apply their skills in this hands-on, two-day workshop. The student will combine and check drawings, create and edit complex blocks, extract data, develop a strategy for working in a team, and will experience the roles of production and/or management. Features that will be explored include Xref manager, options for file support paths, block editor, page setup with plot styles, viewport layer control, annotative scaling, standards checking, data linked between AutoCAD and Excel, fields, sheet set manager, tool palettes, and CUI. To conclude the course, the student may choose between various advanced exercises or design their own problem and solve it with guidance from the instructor.

Instructor: Lillian Crist

Schedule Number 25113 ENGR 9113 Section Z 01

- Mon., May 3 & 10, 9 am-4 pm
- SF State DTC, 835 Market, 6th Floor
- \$435

SF STATE EXTENDED LEARNING
Autodesk
Authorized Training Center/Certification Center

Certify your software skills.
It's the industry standard.
AutoCAD, Revit, 3ds Max Design

Revit at work in Green Building:
Revit is highly suited and extensively used for delivering competitive sustainable designs.

Free Information Session
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