

Ideate, Inc.

# Ideate Solutions

Seize the Opportunity  
with Ideate Solutions

## **interconnect**

(,in·tər·kə·'nekt) verb

1. To be connected one to the other
2. To adjoin with precision within a pattern or standard

2010 Issue 1

# Connect to Opportunity

(ä.pər.'tū.nə.tē) noun

**1. A favorable juncture of circumstances**

**2. A good chance for advancement or progress**

Ideate, Inc. invites you to Seize the Opportunity with the Autodesk® 2011 software portfolio. As a leading Autodesk solution source for the Architecture, Engineering and Construction (AEC), civil, GIS and multimedia industries, Ideate's guiding mission is to provide the most extensive, high-quality information solutions to our clients.

The Autodesk 2011 product releases represent a substantial leap forward for building design, construction, infrastructure and design visualization. The software portfolio will help increase industry adoption of BIM and facilitate multidisciplinary collaboration as never before.

With all the exciting new features, where do you start? The Ideate Tech Experts have assembled the resources you need to begin exploring key AEC software solutions. Check [ideateinc.com/2011](http://ideateinc.com/2011) for videos, feature lists, migration tips and more for:

- AutoCAD® 2011
- AutoCAD® Civil 3D® 2011
- AutoCAD® MEP 2011
- Autodesk® Navisworks® 2011
- Autodesk® Revit® Architecture 2011
- Autodesk® Revit® MEP 2011
- Autodesk® Revit® Structure 2011

While innovative products such as the new Autodesk 2011 releases are important and exciting, to compete and succeed you need even more. You need interconnected solutions. Ideate connects you to the most extensive, highest-quality information solutions: ground-breaking products, training, professional services and technical support so you can seize the opportunity, compete and succeed.

With Ideate, you have a history of performance and experience on your side. Established in 1992, Ideate is recognized as an Autodesk Gold Partner – Architecture, Engineering and Construction. The Ideate team can help you choose practical software solutions that are specific to your business needs.

# How One Customer Connects with Ideate for Success

Ideate  
Stands  
Committed  
to BIM and  
Committed to You

## Historic Connection: Ideate, TLCD and BIM

At the 2000 AIA convention, a newcomer-to-the-market software solution – Revit – caught the eye of Don Tomasi, Sr. Principal of Santa Rosa, California based TLCD. The firm became a very early adopter of BIM and soon a steadfast customer of Ideate.

TLCD recognized that project managers and firm principals would need to be acquainted with Revit at a depth appropriate to their purposes. The firm worked with Ideate to create a Revit primer that was initially called the “Project Managers Course.” The course evolved to become the one-day Revit Architecture for Project Managers Workshop now offered by Ideate throughout the year.

## Ideate Training Brings People and Productivity Together

To this day, new TLCD staff members complete the Ideate three-day Revit Architecture Fundamentals course.

Principals, project managers and all other staff with responsibility for managing Revit projects take the one-day hands-on Ideate Revit Architecture for Project Managers course, the very course TLCD inspired Ideate to develop.

Alan Butler, Sr. Principal, TLCD, explains the firm’s emphasis on Ideate education and training, “Everyone involved, not only design and production personnel, really needs to understand how Revit affects project design and execution.”

## Interconnectivity Works

After Ideate classroom training, TLCD staffers work through new processes and figure out new techniques in-house with the assurance they have Ideate support as back-up. They also attend Ideate Autodesk User Groups International and other events.

According to Guy Messick, Director of Design Technology, TLCD, “The support contract is an important part of our relationship with Ideate. When we call with questions, we can usually surprise even the Ideate staff. We tend to create novel questions because we experiment and try new approaches. We rely on Ideate tech support.”

As a creative experimenter and envelope-pusher, TLCD has needed a resource for timely expert support and for increasing its access to and use of interoperable technologies. Ideate is that resource.

As a core design methodology, Building Information Modeling (BIM) is distinguished by intelligent, three-dimensional, parametric object-based design such that a change anywhere in the BIM model is a change everywhere, automatically and instantly. BIM allows a single virtual model to be shared between all AEC contributors, with each discipline able to contribute information and track all changes. Throughout the building lifecycle – concept, construction to decommissioning – BIM minimizes information loss and delivers extensive, immediately applicable information about project scope, schedule and cost.

## Community Events Connect Industry Professionals One to Another

According to Don Tomasi, having an in-house champion to organize information sharing opportunities for the professional community, including Revit user group events hosted at TLCD with Ideate, has been crucial. When a company is pioneering a new core method for project delivery, information exchange with other trailblazing companies and consultants expands the collective knowledge base.

In the context of the professional community groups that TLCD hosts with Ideate, the firm has been engaged in doing energy analysis using Revit. With expert Ideate technical consultants providing tips and insights on using 3D Studio Max in concert with Revit, the architects and engineers in attendance gain new perspectives.

Early on, TLCD recognized the potential of BIM as a strategic initiative for the firm. Since then, the firm has used BIM across all TLCD practice areas and virtually all project types. Now BIM is the firm’s core methodology for project delivery and is part of the firm’s culture.

Ideate, Inc. is the industry leader in Autodesk Revit implementations for BIM.

# Technical Support Expands Your Capabilities

Receiving the correct answer in a timely manner from experts who know your business is what Ideate Support is all about. Our in-house technical support team lives, breathes and solves your day-to-day challenges and crises. Being able to resolve complex issues quickly helps you get to market ahead of the competition.

Because flexible, responsive support is so important to your success, Ideate offers a full portfolio of support services and tools.

## Standard Support

Our cost-effective, entry-level support designed for small businesses.

## Training Support

Similar to Standard Support this service is provided free to all Ideate students for a period of 90 days after completion of any of our standard classes.

## Government Support

We offer special support options for our government customers.

## Premium Support

Fixed-price, prepackaged Ideate Premium Technical Support gives your CAD and IT staff time to focus on their core issues while it keeps budgets under control. The Plan provides telephone- and web-based access to Ideate technical account specialists who know your business and support history.

Problem resolution and support assistance for design, development, deployment and ongoing operations issues are right at hand, along with full access to online information services to help ensure that your IT staff remains current on Autodesk technologies and products. Plus, with Premium Support, Ideate's eLearning 201 classes are free.

Premium Support is the easy way to reduce risk to your design infrastructure, increase productivity and derive the maximum benefit from your investments in design technology. For complete information about technical support, visit [ideateinc.com/support/support\\_brochure.pdf](http://ideateinc.com/support/support_brochure.pdf).

## Ideate Support Team

The Ideate Support Team includes civil engineers, architects, designers and others with experience in construction, facilities management, process piping, structural, and HVAC design. The team stays on top of today's issues through their off-site consulting work, classroom training, and continuing education in their respective professional fields.

## Save Time on 2011 Migration

If you are on Subscription, ready to download 2011, or considering a move to the new release, here is a link for you. Our Support team has put together the key things you need to know – answers to frequently asked questions about migrating to Autodesk 2011 products, including hardware recommendations and network considerations. Visit [ideateinc.com/products/brochures/2011/ideate\\_2011\\_migration.pdf](http://ideateinc.com/products/brochures/2011/ideate_2011_migration.pdf)

“Excellent  
service  
as always.”

—Clare B. Le Brun,  
Valley Architects LLP,  
St Helena,  
California

eLearning  
201 Classes are  
Free to Premium  
Support Contract  
Holders!

# Engage Ideate Training

Ideate's professional training staff understands your real world needs, and how mastery of software solutions can help you realize your objectives. Ideate courses were developed to be highly relevant, interactive and efficient.

## Convenient, Relevant

Classes are available at Ideate training centers, at your location by arrangement and online. Very convenient eLearning through Ideate maintains your daily business operations uninterrupted.

## 2011 Update Classes and Updated Labs

Ideate is committed to making sure that as your company migrates to new software, your team remains productive. Our training lab computers have been upgraded to 2011 software in order to provide the most current training environment available. Register today for 2011 Update courses. The complete list of training offerings begins on page 7.

## Meet the 2011 Update Classes

### Revit Architecture 2011 Update

Learn your way around new features and productivity enhancements in Autodesk Revit 2011. Get to know the improved user interface, tagging through links, custom elevation tags, conditional formatting in schedules, expanded right click functionality and more. See details on page 13.

### AutoCAD Update – 1 Day

Those familiar with AutoCAD 2009/2010 can gain facility with AutoCAD 2011 updates in a day. Meet the new 2D features, catch up to the enhanced user-friendly interface, tools, commands, objects and annotation. For details, see page 11.

## New Exclusive Class Developed by the Ideate Technical Staff BIM for Contractors

General contractors already involved in BIM projects and those who want to better understand the competitive advantages of BIM, this course is for you. Explore why it is important to model, what information can be accessed and utilized and how that information affects the construction process. Basics including the interface and working with Revit Elements and Families are covered, as are starting a design, managing a building model, adding and modifying building components and viewing the building model. Details are on page 7.

## Five Authorized Training and Certification Centers

Ideate's five locations are Autodesk® Authorized Training Centers and Autodesk® Certification Centers, providing globally recognized training and certification testing for professionals who sell, service and support Autodesk products and solutions. See page 15 for a complete and detailed listing of the Ideate facilities.

"The instructor and materials are very helpful. And examples were given where I can apply to my daily work activities. The course will definitely help me to perform better in my work."

—**Ben Chen, City of Rancho Cordova, California**

"Our instructor was absolutely fantastic! Her teaching abilities are excellent and she has a lot of experience in our field (architecture)."

—**Felix Hunziker, HKIT, Oakland, California**

"[It was] extremely helpful that the instructor's background reflected our industry. He fully understood/ appreciated and could respond to questions and concerns regarding application of the software in our role."

—**Mike Matson, Ratcliff Architects, Emeryville, California**

# Get the Most from Your Software Tools with eLearning and 201s

Each 201 class is designed to give you specific, improved results in your use of software solutions, helping you gain maximum benefits from your powerful tools. Classes are delivered live and online.

## 201 Level eLearning Course Advantages

With eLearning, you can interact with the instructor right from your own office. Because the class schedules rotate, you can easily select your topics of interest and accommodate your schedule. The advantages are many:

- Live – interactive learning
  - Online – learn at your own desk on your own computer
  - Time Efficient – no lost time away from your office
  - Professional – you learn from professionals with real world experience
  - Flexible – choose the classes to fit your schedule
  - Effective – learn the specific tools that make your software work for you
  - Industry association credits can be earned
  - Affordable – classes cost a fraction of onsite courses
- Find a full listing of 201 Level Courses on page 12.

“...professional, highly knowledgeable, effective, and friendly. His classes would benefit any organization or company using or planning to use AutoCAD software.”

—**Moises Montoya,**  
**City of Oakland,**  
**California**

“We look to Ideate to help us be more effective at what we do.”

*From Ideate Study in Success: Revit Leads SERA Architects to LEED® Gold.*

—**Joe Pinzone, Principal,**  
**SERA Architects,**  
**Portland,**  
**Oregon**

“As a customer of Ideate, CKC found the Ideate consultants to be knowledgeable and easy to work with. CKC had the pleasure of participating on Ideate’s expert panel, Starting on the Journey – Implementing Revit in your Office, a positive peer-to-peer event.”

*From Ideate Study in Success: Revit Structure Fulfills BIM’s Promise with Improved Communication and Increased Productivity*

—**Cary Kopczynski & Company Structural Engineers,**  
**Bellevue,**  
**Washington**

## Consulting Services Provide Knowledge Sharing

Ideate, Inc. is also an Autodesk® Authorized Consulting Services Partner, an authorization that allows us to provide an even greater level of knowledge sharing, access to technology and service resources, and ever more advanced design solutions.

Because we employ top registered architects, engineers and designers, we can offer you broad industry expertise and premium services to ensure your maximum productivity and return on investment.

## Ideate Supports Your Communities

Ideate, Inc. supports architecture, design and construction professionals through sponsorship and involvement in a number of industry associations such as the American Institute of Architects, Association of General Contractors and others. In addition to supporting your industry through professional associations, Ideate has a tradition of sponsoring outreach programs and events in support of Ideate home communities.

# Classroom Courses

## ARCHITECTURAL DESIGN & DRAFTING

### **Revit Architecture Fundamentals** 21 LUs\* \$1095

**Course Objective:** Students will learn the concepts and principles of Revit from schematic design through construction documentation. With an introduction to the software's parametric capabilities, students will explore intelligent building components, views, and annotations allowing them to create designs in ways never before possible and enhancing their team productivity.

**Class Length:** 3 days

**Prerequisite:** MS Windows experience required. Architectural design and basic CAD experience recommended.

**Who Should Attend:** New users of Autodesk Revit Architecture.

### **Revit Architecture Beyond the Basics** 14 LUs\* \$795

**Course Objective:** This course covers a wide range of advanced topics, including creating design options, creating custom components, phasing, working with site data, and rendering. Upon completion of the course, users will be able to use Revit to create and render more complex models. This class is recommended for all students working in project team environments.

**Class Length:** 2 days

**Prerequisite:** Revit Fundamentals or equivalent.

**Who Should Attend:** Experienced Autodesk Revit Architecture users.†

### **Revit Architecture Families** [i] 7 LUs\* \$895

**Course Objective:** This fast-paced class is designed for advanced Revit students who are interested in creating parametric Revit content. Students will learn methods for testing and creating both the graphical and data elements of Revit Families through the study of two different family types: a bench and a door. This class will also include Shared Parameters, Family Nesting and tips for standardizing custom Revit content.

**Class Length:** 1 day

**Prerequisite:** A minimum of one year of either Autodesk Revit Architecture, Autodesk Revit MEP, or Autodesk Revit Structure experience required. 3D modeling experience recommended.

**Who Should Attend:** Each company that uses Autodesk Revit Architecture should have at least two people versed in the art of creating families. This class is for experienced Revit students who are tasked with creating or managing Revit families.

### **Revit Architecture** [i] **for Project Managers Workshop** 7 LUs\* \$895

**Course Objective:** Upon completion of this workshop, attendees will be able to understand how Autodesk Revit Architecture changes the typical workflow of completing the design and documentations of building projects. Additionally, attendees will understand the data sustainability aspect of Revit and how the information can be used throughout the design/construction/operation lifecycle of buildings.

**Class Length:** 1 day

**Prerequisite:** Project Management of construction documents required. Architectural design or engineering design is highly recommended. CAD experience is not necessary; workshop does not include hands-on Revit usage.

**Who Should Attend:** Those individuals who are involved with managing BIM/Revit based projects and want to understand how BIM will change how project workflow occurs. This workshop is intended for individuals within firms whose duties include management of the Revit team, design project management, and coordination of the inter-discipline teams. The workshop is also intended for firms that are migrating to BIM/Revit and want to understand the changes in workflow processes and deliverables that will be needed in a BIM environment.

### **BIM for Contractors** [i] **introductory rate 5.1 – 7.31.10: \$595** 14 LUs\* ~~\$695~~

**Course Objective:** This course is for General Contractors who are involved in projects utilizing Building Information Modeling (BIM) or looking to investigate BIM to gain a competitive advantage. This course is taught with Contractors as the main focus. Ideate will focus on why it is important to model, what information can be utilized and how it effects that construction process.

**Class Length:** 2 days

**Prerequisite:** It is required that the student have a working knowledge of Microsoft Windows XP or Microsoft Windows 2000.

**Who Should Attend:** Contractors and Sub-contractors who are bidding on work that requires BIM. Also Construction companies that are looking for a competitive advantage in acquiring new work.

"It was great to have this course focused on the management aspects of using Revit in an architectural firm."

— Gaston Olvera,  
Project Manager,  
Hibser Yamauchi  
Architects

\*This class qualifies for AIA/CES Learning Units.

[i] This class was developed by our Technical Staff and is exclusive to Ideate, Inc.

# ARCHITECTURAL DESIGN & DRAFTING continued...

## **3ds Max Design Fundamentals** **\$1095**

**Course Objective:** In this one day class students will learn ways to leverage the Building Information Model created using Autodesk Revit Architecture to produce photorealistic renderings and animated walk throughs in Autodesk® 3ds Max® Design. This class will examine the Autodesk 3ds Max Design rendering process from beginning to end and demonstrate how it can be used with Revit as an expanded toolset.

**Class Length:** 3 days

**Prerequisite:** Attendees should have some knowledge of 3D modeling concepts prior to attending this course.

**Who Should Attend:** This is an introductory course designed for students with a general knowledge of 3D modeling concepts who need to learn the basic tools required to work in Autodesk 3ds Max Design.

## **3ds Max Design for Architects [i]** **7 LUs\*** **\$895**

**Course Objective:** In this one day class students will learn ways to leverage the Building Information Model created using Autodesk Revit Architecture to produce photorealistic renderings and animated walk throughs in Autodesk 3ds Max Design. This class will examine the Autodesk 3ds Max Design rendering process from beginning to end and demonstrate how it can be used with Revit as an expanded toolset.

**Class Length:** 1 day

**Prerequisite:** Minimum of six months of Autodesk Revit Architecture experience required; some visualization and 3D modeling experience recommended.

**Who Should Attend:** Experienced Autodesk Revit Architecture users tasked with creating photorealistic renderings using Autodesk 3ds Max Design.

## **Revit Structure Fundamentals** **21 LUs\*** **\$1095**

**Course Objective:** This course covers the basics of Autodesk Revit Structure from schematic design through construction documentation for the structural engineering profession. Students will be introduced to the concepts of Building Information Modeling and the tools for parametric design, structural analysis, and documentation. This course offers hands-on exercises representing real-world design scenarios.

**Class Length:** 3 days

**Prerequisite:** MS Windows experience required. Drafting and design experience recommended.

**Who Should Attend:** This course is designed to teach new users the essential elements of Autodesk Revit Structure.

"I was very much impressed by the trainer's competence. She was very efficient and direct in communicating information, and very direct and concise in answering questions."

—Paul King, Structural Drafter, Lionakis

## **Navisworks Fundamentals** **14 LUs\*** **\$795**

**Course Objective:** This course is designed to teach students how to open, review, and run object-interference checks on 3D models. Students will also learn how to link to task-scheduling files and create 4D construction simulations. Using the Animator and Scripser tools, students will create interactive animations.

**Class Length:** 2 days

**Prerequisite:** Working knowledge of MS Windows, 3D design and task-scheduling software.

**Who Should Attend:** This course is designed for new and experienced Autodesk Navisworks users who need to become familiar with all the main tools within Autodesk Navisworks.

## **Green BIM Basics [i]** **7 LUs\*** **\$895**

**Course Objective:** Students learn how to utilize BIM along with design and analysis tools such as Autodesk® Green Building Studio® and Autodesk 3ds Max Design to maximize efficiency, functionality, and most importantly, beauty. The focus will initially be on preparing simple models for analysis, modifying and saving multiple design iterations and reports in Autodesk Green Building Studio. Best practices for modeling, adding LEED parameters for LEED point tracking, and utilizing the Autodesk 3ds Max lighting analysis tool will also be demonstrated through a series of practical exercises. This course provides the student with a starting point for utilizing BIM for more sustainable and cost effective designs.

**Class Length:** 1 day

**Prerequisite:** MS Windows and engineering experience required along with some knowledge of 3D design and Revit software.

**Who Should Attend:** Principals, Project Managers, Project Architects, Designers and anyone interested in leveraging BIM tools to create better, more sustainable, and ultimately carbon neutral designs.

**Note:** This class qualifies for Health, Safety and Welfare (HSW) credits.

## **Ecotect Fundamentals [i]** **14 LUs\*** **\$895**

**Course Objective:** This is a process based course which will teach students how to analyze and test their designs utilizing the robust energy model environments in Autodesk® Ecotect® Analysis.

**Class Length:** 2 days

**Prerequisite:** Understand how to use CAD software, use of 'F' keys (F1-F12) and basic knowledge of the Windows operating systems is required (Windows 2000, XP or Vista). An understanding of some of the basic concepts of sustainable design as well as knowledge of Revit will greatly enhance the course for those wishing to attend. Revit is helpful, but not required.

**Who Should Attend:** This is an entry level course for Architects and Designers and anyone interested in sustainable design analysis.

**Note:** This class qualifies for Health, Safety and Welfare (HSW) credits.



introductory rate through 7.31.10: **\$895**

**Revit MEP – Electrical Fundamentals** 21 LUs\* ~~\$1095~~

**Course Objective:** Students will learn the recommended workflows and basic skills required to navigate Revit MEP and use its tools to create and modify electrical systems (Lighting and Power).

**Class Length:** 3 days

**Prerequisite:** MS Windows experience. Electrical engineering experience required.

**Who Should Attend:** This course is designed for new users of Autodesk Revit MEP.

**Revit MEP – Mechanical and Plumbing Fundamentals** introductory rate through 7.31.10: **\$895**  
21 LUs\* ~~\$1095~~

**Course Objective:** Students will learn the recommended workflows and basic skills required to navigate Revit MEP and use its tools to create and modify mechanical, piping and plumbing systems.

**Class Length:** 3 days

**Prerequisite:** MS Windows experience. Mechanical engineering or Plumbing/Piping experience required.

**Who Should Attend:** This course is designed for new users of Autodesk Revit MEP.

**Revit MEP Families**  7 LUs\* **\$895**

**Course Objective:** This fast-paced class is designed for experienced Revit students who are interested in creating parametric content. Students will learn methods for testing and creating both the graphical and data elements of MEP Families. This class will also include Shared Parameters, Family Nesting, and tips for standardizing custom content.

**Class Length:** 1 day

**Prerequisite:** Minimum of three months of using Autodesk Revit MEP or completion of a Revit MEP Fundamentals class.

**Who Should Attend:** Each company that uses Autodesk Revit MEP should have at least one person versed in the art of creating families. This class is for experienced Autodesk Revit MEP students who are tasked with creating or managing families and need to have a base knowledge of how to get started in the right direction.

**AutoCAD MEP Projects and Tools Fundamentals** 14 LUs\* **\$795**

**Course Objective:** This course is designed to teach students the basic procedures necessary for implementing projects and styles, understanding objects, creating tools, and adding documentation to drawings using AutoCAD MEP.

**Class Length:** 2 days

**Prerequisite:** Working knowledge of a recent version of AutoCAD, in addition to drafting, design, or engineering experience. Working knowledge of Microsoft Windows XP or Microsoft Windows 2000 also recommended.

**Who Should Attend:** This course is designed for the new user of AutoCAD MEP.

**AutoCAD MEP Mechanical (HVAC)** 14 LUs\* **\$795**

**Course Objective:** This course is designed for students who develop, modify, and complete Heating, Ventilating, and Air Conditioning (HVAC) design and documentation. The topics in this course are setting up a mechanical drawing, determining energy requirements, creating an HVAC system, creating mechanical construction documents, and working with schematic drawings.

**Class Length:** 2 days

**Prerequisite:** Knowledge of HVAC terminology and some knowledge of AutoCAD.

**Who Should Attend:** This course is designed for the new user of AutoCAD MEP.

**AutoCAD MEP Electrical** 14 LUs\* **\$795**

**Course Objective:** This course is designed for users who develop, modify, and complete electrical systems for buildings. The topics in this course are setting up an electrical drawing, creating lighting and power plans, creating electrical construction documents, and working with schematic drawings.

**Class Length:** 2 days

**Prerequisite:** Knowledge of electrical terminology and some knowledge of AutoCAD.

**Who Should Attend:** This course is designed for the new user of AutoCAD MEP.

**AutoCAD MEP Piping** 7 LUs\* **\$495**

**Course Objective:** This course is designed to teach students the basic functions necessary for creating a piping plan using AutoCAD MEP. Upon completion of the course, the student will be able to create, label, and modify a Process Flow Diagram; create a piping model and define route preferences; place piping equipment; layout pipes and fittings; layout symbols, lines, and inline annotation in ISO mode; and tag, schedule, and plot Process Flow Diagrams and piping models.

**Class Length:** 1 day

**Prerequisite:** Knowledge of plumbing terminology and some knowledge of AutoCAD.

**Who Should Attend:** This course is designed for the new user of AutoCAD MEP.

\*This class qualifies for AIA/CES Learning Units.

 This class was developed by our Technical Staff and is exclusive to Ideate, Inc.

## CIVIL ENGINEERING

### Civil 3D Fundamentals

\$1095

**Course Objective:** This course introduces the user to the core concepts of Autodesk's next generation of Civil Engineering software. Geared toward those who have never worked with AutoCAD Civil 3D, this class will expose users to the basics of the software and its intelligent, object-oriented, three-dimensional engineering model. In this class, students will learn how to work with styles and how they can be used to control intelligent relationships between points, surfaces, parcels, roads, and grading objects, allowing design changes to be dynamically updated.

**Class Length:** 3 days

**Prerequisite:** Familiarity with current version of AutoCAD, civil engineering and survey practices. Basic knowledge of Windows 2000 or XP including Windows Explorer and the standard Windows user interface.

**Who Should Attend:** This course is designed to teach new users the essential elements of AutoCAD Civil 3D for creating, analyzing, and managing civil engineering drawings and projects.

### Civil 3D Survey

#### Fundamentals – Field to Finish

\$1095

**Course Objective:** Civil 3D Survey Fundamentals – Field to Finish training will equip the surveyor with the basic knowledge needed to use AutoCAD Civil 3D efficiently in a typical daily workflow. From exporting data from field equipment to importing the converted data into a standardized environment in AutoCAD Civil 3D and utilizing the automation tools to create an Existing Condition Plan. Focus is more on styles, proper AutoCAD drafting techniques and also the methodology needed to create linework effectively for variables used in defining symbology, surfaces, categorizing points and importing imagery on State Plane Coordinate Systems from Google Earth.

**Class Length:** 3 days

**Prerequisite:** Prior experience with AutoCAD and a basic understanding of the Surveying profession.

**Who Should Attend:** This course is designed for Surveyors.

"I just wanted to thank you on behalf of URS/Oakland Office for the excellent service and professional training session that you provided to our staff. Thank you again, and looking forward to working with Ideate in future training."

—Kourosh Langari,  
Senior Project Engineer,  
URS Corporation

## DRAFTING & DESIGN

### AutoCAD Fundamentals

21 LUs\* \$895

**Course Objective:** This course is best suited for professionals and technical drafters who are transitioning from hand drafting or switching from another program to AutoCAD. This course is often the best choice for students who have been away from the software for several years or for those who are upgrading from a much earlier version of AutoCAD.

**Class Length:** 3 days

**Prerequisite:** MS Windows experience. Drafting and design experience recommended.

**Who Should Attend:** If you are just beginning to work with AutoCAD, or have been working with it for a while but are not sure if you have the concepts down, this class is for you. It covers basic drafting and design topics which are valuable irrespective of the field you work in.

### AutoCAD Beyond the Basics

14 LUs\* \$795

**Course Objective:** This course is suitable for students comfortable with the basics of creating an AutoCAD drawing, as taught in AutoCAD Fundamentals. It focuses on using efficiency tools (including Grips and Tool Palettes), drawing with complex objects (including Polylines and defining Blocks), advanced annotation (including Text, Attributes, Fields And Tables), using External Reference files and Image files, and enhancing productivity with simple customization.

**Class Length:** 2 days

**Prerequisite:** AutoCAD Fundamentals, AutoCAD Update, or equivalent. **Please Note:** Assessment required to enroll in this training.

**Who Should Attend:** If you have the AutoCAD basics down and you are looking to further your techniques to an intermediate level then this class is for you. This class covers many parts to AutoCAD that can help the user not only strengthen what they already know, but teaches the tricks and techniques to be quicker and more effective.

## AutoCAD Update – 1 Day

7 LUs\* \$395

**Course Objective:** This course introduces the new 2D features of AutoCAD 2011 for users of AutoCAD 2009 and 2010. Among the many updates in 2011 are enhancements to the user interface, which creates a more user-friendly environment. Also covered are enhancements to tools, commands, objects and annotation. Hatch patterns now have transparency capabilities, and interaction with polyline objects have been greatly improved for editing and modification. Current 2009 users will be introduced to new features of both the 2010 and 2011 application, including updates to publishing with a streamlined batch plot/publish dialog box, and PDF output capabilities. External reference tools have also been streamlined with the same process used for each file type. Contextual tabs for many AutoCAD objects also provide quick access to object-specific editing commands.

**Class Length:** 1 day

**Prerequisite:** This course assumes familiarity with AutoCAD 2009. Many of the changes covered in the class are based on features that have appeared in recent releases of AutoCAD, such as the ribbon interface, workspaces, 3D modeling tools, and infocenter. Students who are not familiar with the existing features in the software should consider the AutoCAD Fundamentals course.

**Who Should Attend:** All proficient users of AutoCAD 2009/2010 and wish to use and benefit from the latest version of AutoCAD.

## AutoCAD 3D Drawing and Modeling

7 LUs\* \$495

**Course Objective:** This one-day AutoCAD 3D Drawing and Modeling class shows how easy the new AutoCAD interface can create and modify existing objects to 3D. This class introduces users who are proficient with AutoCAD 2D commands to the concepts and methods of 3D modeling. The course gives a thorough foundation in 3D fundamentals and explores the main features of the AutoCAD advanced 3D working environment.

**Class Length:** 1 day

**Prerequisite:** Students must have a basic understanding of Microsoft Windows and a solid proficiency with basic AutoCAD fundamental concepts.

**Who Should Attend:** This course is designed to give you the necessities of navigating around the 3D environment for any AutoCAD based product. Definitely take this class if you wish to migrate from the 2D world and venture into 3D.

“Our instructor was great. He was knowledgeable, helpful and explained everything clearly. I would take a class taught by him again and would recommend him to others.”

—Maggie Leighly,  
Sasaki Associates

\*This class qualifies for AIA/CES Learning Units.

# eLearning – Online Courses

All online courses offer a robust and highly interactive training experience without expensive travel costs or interruption to daily business operations, making eLearning one of the most powerful training tools in the IDeate, Inc. education portfolio.

All classes are available for individual purchase or can be purchased for a group as listed below:

## Corporate Class

Non-Premium Support Contract Holders (1 class, 10 logins) – \$795

Premium Support Contract Holders (1 class, 25 logins) – \$495

## REVIT 301

### Revit Architecture Family Editor Basics

1 LU\* \$99

**Course Objective:** This online class is an introduction to creating parametric content in Revit. Students will be introduced to the Revit Family Editor and walked through the process of creating basic parametric content. Topics covered include family templates and categories, creating and grouping parameters and nesting families.

**Class Length:** 1.5 hours

**Prerequisite:** A minimum six months of either Autodesk Revit Architecture, Autodesk Revit MEP, or Autodesk Revit Structure experience required. 3D modeling experience recommended.

#### Who Should Attend:

This class is for experienced Revit users who are tasked with creating or managing Revit families, and are looking for an introduction to the process.

“[The instructor] did a great job of stopping after each topic to ask for questions. It was helpful and more interactive.”

—Boon Sramala,  
Rumsey Engineers

**The Following 201 eLearning Courses are Available for Individual Purchase, but are Free to Premium Support Contract Holders** Premium Support customers can now register for any of the following eLearning courses offered at no additional cost. Take eLearning courses to sharpen skills on software you already use or satisfy your curiosity and explore software capabilities of other Autodesk programs. If you are not a Premium Support customer already, call to get started on an annual program today: 888.662.7238.

## REVIT 201

Revit 201 is an online series of classes, focused on diverse Revit topics. Each class goes in-depth on one topic and gives you specific skills to improve your design process and increase your productivity.

**Class Length:** 1.5 hours from 11:30am – 1:00pm PT

**Prerequisite:** For most courses, students, should be familiar with Revit Fundamentals.

**Online Dates:** [Call or Check Online:](http://ideateinc.com/educate/online)

[ideateinc.com/educate/online](http://ideateinc.com/educate/online)

### Analysis for Master-Planning 1 LU\* \$99

In this course you will learn how AutoCAD Civil 3D, the standard design tool for civil engineers, is being used by many planners to bridge the gap between planning and engineering. You will learn the basics of the civil design model and how to analyze the slopes of the existing ground surface, model the composite finished ground surface and calculate the resulting earthworks.

### Collaborating Across Disciplines:

#### Revit Architecture/Structure/MEP 1 LU\* \$99

Collaboration between engineers and architects is greatly enhanced through proper project setup and team communication. This class outlines the collaboration toolset provided within Revit for streamlining the IPD process. In addition to using Copy/Monitor for coordination review and change management, the class will cover Shared Coordinates and other tips for aligning the engineering and architectural models. This class is a must before embarking on your first Revit collaboration project.

### Conceptual Design Tools 1 LU\* \$99

In Revit, massing tools can be used during the conceptual design phase. As the design is further refined, early data concerning square footage and volume can be taken from the conceptual model. Once approved, the conceptual model can be moved forward by converting the model into actual walls, floors, curtain walls, and roofs. This class is an introduction to massing tools used to create a conceptual model as well as how to query the design for square footages and convert the model into real-world building components.

**Converting Blocks to Families** **1 LU\*** **\$99**

This class covers how to quickly and cleanly convert DWG or DGN symbols (blocks) into Revit Families. Students will walk through four simple steps to create basic parametric Revit content. Class examples will include converting landscaping blocks such as trees and shrubs; site blocks such as north arrows and signage blocks; furniture and case work; and a repeating detail component block.

**Getting Started with Presentations** **1 LU\*** **\$99**

The mental ray® rendering engine makes it easy to create photo realistic renderings in Revit. This class will focus on how to set up your scene, create and modify existing materials as well as set up exterior and interior lighting. There will also be many tips and tricks for doing quick presentations as well as productivity ideas to get your renderings and presentations out the door on time and on budget. Recommended for those new to rendering.

**Leveraging Design Options** **1 LU\*** **\$99**

Design Option tools are used to study and propose alternate designs. Design Options can be used during schematic design or in CD phase to handle alternate bid items. This class examines when to use and not use Design Option tools as well as covers how to create and present different Design Options from plan to 3D to schedules.

**Making Titleblocks and Drawing Lists** **1 LU\*** **\$99**

This class not only includes how to create custom titleblocks from scratch by choosing size, adding line types, parameters, and logos, but also how to import a titleblock from AutoCAD. Students will also learn how to create and add drawing lists as well as what to include/not include in the list.

**Phasing A-Z** **1 LU\*** **\$99**

Phasing adds the element of time (4D) to your Building Information Model (BIM). This class covers how to create and manage phased views, control the display of phased objects, and organize the Project Browser by phase.

**Rapid Detailing** **1 LU\*** **\$99**

Go beyond your building information modeling and improve your documentation skills. This class will cover an array of detailing tools including detail views, detail components, repeating details and detail groups. Additionally the use of CAD details and the ability to reuse details on future projects will be discussed.

**Revit Architecture 2011 Update** **1 LU\*** **\$99**

Join us for a 1.5 hour class focusing on the new features and productivity enhancements in Autodesk Revit 2011. This class will focus on improvements to the user interface, new features such as tagging through links and custom elevation tags as well as conditional formatting in schedules. We will also explore added functionality to right click menu options as well as the new adaptive component family available through the Conceptual Design tool interface.

**Scheduling 201** **1 LU\*** **\$99**

Using occupancy study and LEED credit examples, this class will dig deeper into scheduling. Students will learn how to create Shared Parameters and Calculated Parameters (both percentage and formula) as well as how to utilize Key Schedules. This class will also review how schedules interact with Phasing, Design Options and Linked Files.

**Site Tools** **1 LU\*** **\$99**

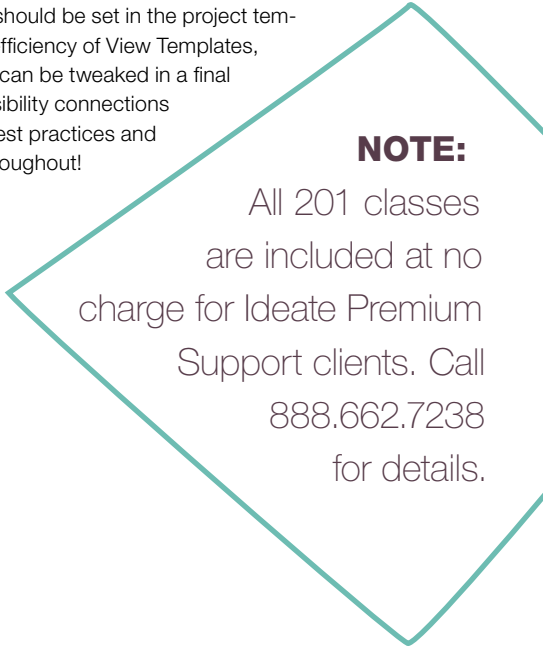
This class is designed for Autodesk Revit Architecture users. It will examine how to create 3D topographic models of site conditions using Revit Site tools. The class will also cover toposurfaces; graded regions; cut and fills; and tips and tricks for linking site plans.

**Worksharing Best Practices** **1 LU\*** **\$99**

This class discusses setup procedures and best practices for worksharing in Revit. Students will learn about recommended ways to use Worksets and Element Borrowing. Students will learn file naming conventions, recommended daily procedures, tips for enhanced project performance, and use of worksets for visibility.

**View Properties - Controlling Visibility** **1 LU\*** **\$99**

This session will go over the hierarchy structure of model visibility control in Revit, from what should be set in the project template, through maximizing efficiency of View Templates, to how the system settings can be tweaked in a final detail view. Decipher the visibility connections between linked files, with best practices and workflow tips discussed throughout!



**NOTE:**

All 201 classes are included at no charge for Ideate Premium Support clients. Call 888.662.7238 for details.

\*This class qualifies for AIA/CES Learning Units.

Ⓜ All eLearning courses were developed by our Technical Staff and are exclusive to Ideate, Inc.

## NAVISWORKS 201

**Class Length:** 1.5 hrs from 11:30am – 1:00pm PT

**Prerequisite:** Navisworks Fundamentals

**Online Dates:** [Call or Check Online:  
ideateinc.com/educate/online](http://ideateinc.com/educate/online)

### **Clash Detection** **1 LU\*** **\$99**

This class is for anyone currently utilizing Autodesk Navisworks who would like to increase their knowledge of its Clash Detective Tool. The class will focus on setting up files, utilizing find and search tools and selection sets for various types of clash tests. Successful work flows with project teams will also be discussed.

## CIVIL 3D 101

**Class Length:** Two 2 hour online sessions delivered at lunchtime from 11:00am – 1:00pm PT

**Prerequisite:** Intermediate to advanced level AutoCAD skills (current version). Familiarity with current civil engineering and survey practices. Basic knowledge of Windows 2000 or XP including Windows Explorer and the standard Windows user interface.

**Online Dates:** [Call or Check Online:  
ideateinc.com/educate/online](http://ideateinc.com/educate/online)

### **Civil 3D for Beginners** **\$199**

**Course Objective:** This online course is geared toward users who are already familiar with AutoCAD® Land Desktop/Civil Design and want to get a jumpstart in AutoCAD Civil 3D. Users will learn how to navigate the new interface and control the appearance of engineering objects and drafting elements by developing company standard styles. Users also gain a better understanding of how current design processes can be migrated from AutoCAD Land Desktop to AutoCAD Civil 3D.

## CIVIL 3D 201

Civil 201 is the latest addition to Ideates online educational portfolio. Each class is designed to help maximize your productivity.

**Class Length:** 1.5 hrs from 11:30am – 1:00pm PT

**Prerequisite:** For most courses, students should be familiar with Civil 3D and AutoCAD Fundamentals.

**Online Dates:** [Call or Check Online:  
ideateinc.com/educate/online](http://ideateinc.com/educate/online)

### **Analysis for Master-Planning** **\$99**

In this course you will learn how AutoCAD Civil 3D, the standard design tool for civil engineers, is being used by many planners to bridge the gap between planning and engineering. You will learn the basics of the civil design model and how to analyze the slopes of the existing ground surface, model the composite finished ground surface and calculate the resulting earthworks.

### **Data Short Cuts** **\$99**

Because AutoCAD Civil 3D data is stored entirely within a AutoCAD Civil 3D drawing, you can use data shortcuts to reference object data from surfaces, alignments, pipe networks, and view frame groups in multiple drawings. Additionally with data shortcuts, your team members can access object data to use one object for multiple design tasks. In this course, you will learn the fundamentals of what data shortcuts are, how they work, and how to use them.

### **Surface Creation and Editing** **\$99**

In this course, you will learn how to build and edit a AutoCAD Civil 3D surface. Import points from a coordinate point file to create a new surface, and learn how to create point groups. We will also learn how to apply additional surface data such as TIN boundaries and breaklines. We will then learn how to edit our surface objects and finally how to add contour labels to our surface model.

### **Working with Lidar in Civil 3D** **\$99**

Because Lidar offers many advantages over traditional photogrammetric methods for collecting elevation data many civil engineers and designers are starting to use it for preliminary layouts, flood mapping, drainage area maps and calculations, planning layouts, and for creating presentation displays. This course will cover the basics of incorporating Lidar data into your AutoCAD Civil 3D projects for surface modeling and include tips for more efficiently managing large Lidar datasets.

\*This class qualifies for AIA/CES Learning Units.

■ All eLearning courses were developed by our Technical Staff and are exclusive to Ideate, Inc.

## REGISTRATION

You will find full course descriptions, pricing, and schedules for all locations on our web site at [ideateinc.com/educate](http://ideateinc.com/educate). To register call, email, or go online:

**Phone** 888.662.7238 x1012

**Email** [education@ideateinc.com](mailto:education@ideateinc.com)

**Online** [ideateinc.com/educate](http://ideateinc.com/educate)

### Cancellation Policy

- Students may call to cancel a reservation and receive a credit toward future training up to ten business days before the class. Training credits expire one year from the issue date. If notification is received less than ten business days before the class, the cancellation charge will be the full class tuition. Payment is due per the terms of the invoice, regardless of when the class is completed. The student agrees to the Ideate Cancellation/Rescheduling Policy with issue of purchase order or any method of payment.
- Student substitutions are acceptable upon prior notice to the Ideate Training Department. There will be no additional fees for student substitutions. Substitutes are required to meet all course prerequisites or be approved by the Ideate Training Department.
- Ideate, Inc. reserves the right to reschedule or cancel classes lacking sufficient enrollment. Prepaid students registered in a class that is cancelled by Ideate will be given preference in rescheduling a future class.

## TRAINING LOCATIONS

**San Francisco** 44 Montgomery Street, Suite 1000  
San Francisco, CA 94104

**San Jose** 25 Metro Drive, Suite 220  
San Jose, CA 95110

**Sacramento** 2520 Venture Oaks Way, Suite 180  
Sacramento, CA 95833

**Portland** 805 SW Broadway, Suite 2280  
Portland, OR 97205

**Seattle** 701 Fifth Avenue, Suite 5040  
Seattle, WA 98104

## CONTACT INFO

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**NOTE:** Class dates are subject to change. Call to verify class dates.

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## Ideate Leads in a Challenging Global Job Market

Ideate Assistance is an innovative program from Ideate, Inc. to help unemployed members of the AEC community expand skills and expertise in Building Information Modeling and Integrated Project Delivery. Qualified applicants must first enroll and be accepted in the Autodesk Assistance Program.

Participants can receive free software licenses for non-commercial use of certain Autodesk products, substantially discounted Ideate classroom training on specific courses, discounted preparation and certification exams, invitations to networking events and a hiring/rehiring incentive. To learn more about the program, visit [ideateinc.com/ideas/assistance.html](http://ideateinc.com/ideas/assistance.html).

Carolyn Forsyth took Ideate's Revit Architecture Fundamentals course in Portland, Oregon with instructor Ron Palma:

"I took this class as a part of the Autodesk Assistance Program, and could not have been more pleased. If I end up getting re-hired at my old firm, or if I find employment elsewhere, the skills I learned in this class will be incredibly valuable...  
THANK YOU!"