No	区分	Type	Title	Contents
1		CI1870	CI1870 - LiDAR Data and Point Clouds: From Scanning to Planning and Beyond This class is designed for the surveyor, engineer, or planner who is interested in finding out more about incorporating the use of LiDAR data into their project lifecycle... View More90 Minutes Lecture Matt Miyamoto	This class is designed for the surveyor, engineer, or planner who is interested in finding out more about incorporating the use of LiDAR data into their project lifecycle using products from Autodesk® Infrastructure Design Suite Ultimate 2014. The class focuses on the key workflow processes for incorporating LiDAR data from data collection and review to planning and design. With the addition of Autodesk® ReCap™ software to the 2014 design suites, the ability to process and review LiDAR data has been incorporated into our project workflow. In this class, we begin by reviewing and editing a sample LiDAR dataset in ReCap. Next, we see how the data can be incorporated into planning stage visualization using Autodesk® InfraWorks™ software. Following InfraWorks, we see how the LiDAR data can be incorporated into Autodesk® AutoCAD® Civil 3D® software and used for creating existing ground models for the basis of design using Infrastructure Design Suite Ultimate.
2		AC2601-L	AC2601-L - A Dynamic Lab on Dynamic Block Creation in Autodesk® AutoCAD® Do you have a bloated block library due to many variations of the same block? Let’s take a door for example: because of different door widths, directions, thicknesses, and... View More90 Minutes Hands-on Lab Tracy Chadwick	Do you have a bloated block library due to many variations of the same block? Let’s take a door for example: because of different door widths, directions, thicknesses, and other variables, you can easily find yourself with hundreds of blocks. Let’s reduce that to one dynamic block that has the ability to take on those hundreds of variations. In this hands-on lab, you have the chance to make your own dynamic blocks that you can take back to work with you and instantly increase your productivity.
3	Rec	CI1411	CI1411 - Engineering Art: Large-Scale Infrastructure Modeling Through 3D Visualizations Based on the successful construction of a sustainable water reuse (purple pipe) project, this class breaks down the steps for managing large diameter (20 inch +) waterlines... View More60 Minutes Lecture Jennifer Taylor	Based on the successful construction of a sustainable water reuse (purple pipe) project, this class breaks down the steps for managing large diameter (20 inch +) waterlines on major (5+ miles) projects. We show the basics for modeling existing utilities, managing updates to utility models based on test pit data, and pulling from the Autodesk® AutoCAD® Civil 3D® road design toolset to develop waterline models. As we begin to dive into the pressure pipe tools of Civil 3D 2014, we discuss the transition to those new features. Next, we show you how to market the process of design on infrastructure projects, so as to show the 3D elements of what’s still delivered as 2D paper plans. With expansive projects, the use of Autodesk® InfraWorks™ software has provided a great set of tools for quickly compiling data from multiple sources into a single location and present visualizations based on active design files to clients and the community.
4	Rec	CI1270	CI1270 - Making Something from Nothing: Integrating Autodesk® InfraWorks™ into Your Design Have you encountered any challenges when creating an urban-scale 3D model? How can you start a design proposal with an area that has no existing information, such as... View More60 Minutes Lecture Joseph Huang	Have you encountered any challenges when creating an urban-scale 3D model? How can you start a design proposal with an area that has no existing information, such as topography maps, aerial photos, and engineering data? This class focuses on workflows and tips and tricks that can enable you to better create, evaluate, and communicate conceptual designs using Autodesk InfraWorks, Autodesk® AutoCAD® Civil 3D®, and Autodesk® Revit® software. We also demonstrate the comparison of using Autodesk® Navisworks® software and Autodesk® BIM 360™ Glue® cloud-based software in various cases in order to choose the suitable workflow for your design.
5		CI3062	CI3062 - Conceptualizing Roundabout Designs and Trying Out Multiple Solutions Conceptualizing roundabout designs and trying out multiple, possible design solutions is a key stage in any roundabout design project. Whether you are an independent designer... View More60 Minutes Lecture Mike Hutt	Conceptualizing roundabout designs and trying out multiple, possible design solutions is a key stage in any roundabout design project. Whether you are an independent designer who is providing specialized skills as subcontractor, a leading consultancy provider who is responding to a competitive tender, or a public agency that is managing an intersection design project, the responsibility to deliver a quality and cost-effective design is ever present. The biggest challenge for all involved is more often than not funding and cost, rather than geometry or engineering related. Autodesk® Vehicle Tracking 2014 software integrated with Autodesk® AutoCAD® Civil 3D® software not only manages data better by incorporating accepted workflows but also fits funding models and brings the viability of producing high-quality 3D models into the hands of all designers by fast tracking them into a detailed design stage where the real engineering work can be explored.
6		CI1550	CI1550 - Hydraulics and Hydrology: The Water Resource Tools Available in Autodesk® Infrastructure Design Suite Autodesk has given us a variety of water resource tools in Autodesk Infrastructure Design Suite. If you are a manager or a designer, you need to know if you can stop paying... View More60 Minutes Lecture Dino Lustri	Autodesk has given us a variety of water resource tools in Autodesk Infrastructure Design Suite. If you are a manager or a designer, you need to know if you can stop paying maintenance on competing software and move your organization forward with a single suite of tools. You want to know what is in the suite from someone who does what you do and if it can do the things you need it to do. In this class, you get a better understanding of what equations are being used in which applications and how to find the right fit for the project requirements that are being passed on down to you. We review Storm Sewers, Hydrographs, Express Tools, SSA, and River Analysis. You also learn some tips and tricks that those who already are familiar with these tools can use.

No	区分	Type	Title	Contents
7		GS3256-R	GS3256-R - Autodesk® InfraWorks™ For Emergency Management In emergency situations, it is critical that information be clear, free from ambiguity and easily understood by a range of individuals and organizations. At the City of... View More60 Minutes Roundtable Dan Campbell	In emergency situations, it is critical that information be clear, free from ambiguity and easily understood by a range of individuals and organizations. At the City of Vancouver, we are recognizing how presenting data in 3D, rather than using traditional 2D maps and diagrams, improves comprehension of complex situations and reduces the possibilities for misunderstandings. In this roundtable session, we discuss how we are using Autodesk InfraWorks software to consolidate data from a wide range of CAD and GIS (with a specific focus on MapInfo Professional®) sources to produce output to improve major event planning. We cover how we have applied specific tools, including "line of sight" analysis, animation, and thematics. We also discuss how the City is using InfraWorks to present data related to earthquake and flood mitigation produced by FEMA's Hazus application.
8		AC2241-L	AC2241-L - Autodesk®360 with AutoCAD® 360 Web/Mobile: How Powerful Are These Tools? Ever since Autodesk® web services and mobile applications were first introduced—Autodesk® AutoCAD® 360 (formerly AutoCAD® WS) and Autodesk® 360 cloud-based services—Andrzej... View More75 Minutes Hands-on Lab Andrzej Jaskulski	Ever since Autodesk® web services and mobile applications were first introduced—Autodesk® AutoCAD® 360 (formerly AutoCAD® WS) and Autodesk® 360 cloud-based services—Andrzej Jaskulski has run his yearly “Autodesk Authorized Author Spring Laboratory” which has explored the advantages and disadvantages of this solution. Each year, after tests were complete, he has written a new book for a well-known training series in Poland called AutoCAD–Design Course. In this hands-on-lab, he shares his knowledge and experience on the power of these tools, identifies their strong and weak points, and explains how to avoid problems in individual and concurrent design workflows. Attendees have the opportunity to practice with desktop, mobile, and cloud configurations. They should also be able to assess how effective this solution can be in their business or design office. To benefit from this class, attendees should have a basic knowledge of Autodesk® AutoCAD®.
9		GS1452	GS1452 - Using the Power of AIMS and Autodesk® AutoCAD® Map 3D to Manage Assets and Facilities Autodesk® Infrastructure Map Server software can be used with AutoCAD Map 3D software to efficiently manage and maintain assets and infrastructure without requiring a... View More60 Minutes Lecture Recep Alakus	Autodesk® Infrastructure Map Server software can be used with AutoCAD Map 3D software to efficiently manage and maintain assets and infrastructure without requiring a traditional tabular asset management application. This class demonstrates setting up a GIS infrastructure that incorporates Autodesk Infrastructure Map Server, Autodesk AutoCAD Map 3D, and the spatial features of an Oracle® database. The system can be used not only for comprehensive asset management, but also graphically and in a geospatial environment. The class also illustrates numerous asset lifecycle management workflows for day-to-day operations, such as data capture and storage, reports, and analysis within a multiple-modules format. The class presents numerous case studies of management processes for road assets and building facilities, including field data capture of asset conditions and work order processes.
10		AC2507	AC2507 - Start to Finish with Autodesk® Infrastructure Design Suite: A Case Study Learn to harness the collective power of Autodesk Infrastructure Design Suite by applying Autodesk® AutoCAD® Map 3D, Autodesk® AutoCAD® Civil 3D®, and Autodesk® InfraWorks™... View More60 Minutes Lecture Donnie Gladfelter	Learn to harness the collective power of Autodesk Infrastructure Design Suite by applying Autodesk® AutoCAD® Map 3D, Autodesk® AutoCAD® Civil 3D®, and Autodesk® InfraWorks™ software, as well as Autodesk® 360 cloud services in concert through a real-world case study of a road revitalization and walkability project. In addition to software interoperability, workflows highlighted in this class include identifying land acquisition requirements, establishing and communicating land acquisition values with stakeholders, generating and analyzing conceptual proposals in the context of existing conditions, finalizing engineering design, and creating immersive online models for the public and project stakeholders to interact with. In summary, this class demonstrates the concept that “there’s always money in the BANANA (build absolutely nothing anywhere near anything) stand” when stakeholders are engaged by your proposals.
11		GS2296-L	GS2296-L - Data Mining Techniques: Creating Pre- and Post-Development Drawings and Hydrographs This hands-on lab covers data mining techniques using Autodesk® AutoCAD® Map 3D and Autodesk® Storm and Sanitary Analysis software. We cover how to effectively use existing... View More75 Minutes Hands-on Lab Nicholas Edwin	This hands-on lab covers data mining techniques using Autodesk® AutoCAD® Map 3D and Autodesk® Storm and Sanitary Analysis software. We cover how to effectively use existing and created GIS layers to streamline creation of pre- and post-development drainage map drawings and to then import the data into Storm and Sanitary Analysis to create hydrographs. We examine technical workflows and provide useful tips for analyzing soils and pervious/impervious data as well as for automating filter basin data. We also touch on the new catchment workflows in Autodesk® AutoCAD® Civil 3D® software. We use several example projects to demonstrate project workflow from pre-planning all the way through basic drainage map project design.
12		CI2243-L	CI2243-L - Modeling and Visualizing Substrata Data with Autodesk® AutoCAD® Civil 3D® In this class we are going to look at how we can use the surfaces created by the Autodesk® Geotechnical Module in Autodesk AutoCAD Civil 3D software to model and present... View More75 Minutes Hands-on Lab Gary Morin	In this class we are going to look at how we can use the surfaces created by the Autodesk® Geotechnical Module in Autodesk AutoCAD Civil 3D software to model and present geological data. The class covers some general tips on editing the surfaces to generate geotechnical features such as lenses and faults. Next we look in detail at how these can be presented in a fence diagram. A fence diagram is a 3D geologic cross-section that allows easy visualization of the stratigraphic changes in the subsurface. The 3D sections are displayed in position on the 3D model, a great aid for understanding and presenting geotechnical data; it also looks cool. This class is designed to assist you in understanding the techniques in modeling and visualizing substrata to better understand and present information.

No	区分	Type	Title	Contents
13		AC2660-L	AC2660-L - Annotation Scaling in AutoCAD®: Bringing the Technology Home Learn how to implement annotation scaling in your organization. Whether you would like to start with baby steps or go full bore, in this class you can learn all levels of... View More75 Minutes Hands-on Lab KaDe King	Learn how to implement annotation scaling in your organization. Whether you would like to start with baby steps or go full bore, in this class you can learn all levels of migrating these tools into your daily workflow. Learn about annotation scaling and how it works with hatching, text, linetype scale, dimensions, and all of the other options. See how you can "bring this technology home," improve your productivity, and reduce unnecessary hours spent on annotations. This class is designed to assist you in building a new workflow for annotation in your organization.
14		CI1484-P	CI1484-P - Route Planning Using Autodesk® InfraWorks™: A "How To" Class by Autodesk and CDM Smith This class covers the use of Autodesk InfraWorks software as a tool for sketching, designing, and evaluating multiple design alternatives using the cloud in the context of... View More90 Minutes Lecture Mathews Mathai	This class covers the use of Autodesk InfraWorks software as a tool for sketching, designing, and evaluating multiple design alternatives using the cloud in the context of transportation route planning. This class shows you how CDM Smith used InfraWorks to plan the realignment and reconstruction of an existing county road project that improves habitat connectivity (reducing the risk of conflicts between vehicles and wildlife) and ties in to a major interchange on Florida’s highway system. A second project shows how CDM Smith applied InfraWorks to model a new connector roadway between existing arterials that serve a heavily traveled tourist area in the steep terrain of East Tennessee.
15		CI2975-P	CI2975-P - Ten Practically Awesome Autodesk® AutoCAD® Civil 3D® Grading Examples Tired of seeing an Autodesk AutoCAD Civil 3D software grading demonstration of a rectangular building pad? In this class, you learn how to use the Civil 3D grading tools to... View More90 Minutes Lecture Eric Chappell	Tired of seeing an Autodesk AutoCAD Civil 3D software grading demonstration of a rectangular building pad? In this class, you learn how to use the Civil 3D grading tools to build 10 common things that are great practical applications for most grading designs. We look at walls, driveways, berms, swales, and many other things. We also look at how to combine these smaller designs into 1 large final design.
16		CI1772	CI1772 - Parcel and Plat, Linework, Tables, and Labels for Intermediate Autodesk® AutoCAD® Civil 3D® Users This class is for users who need to learn how to use lines, polylines, and dynamic labels and tables to reduce errors on plans. The class shows how a small amount of workflow... View More90 Minutes Lecture Paul Kirkendall	This class is for users who need to learn how to use lines, polylines, and dynamic labels and tables to reduce errors on plans. The class shows how a small amount of workflow analysis and setup when you begin to use Autodesk AutoCAD Civil 3D software can streamline the office workflow for future projects. This class covers inserting points, point groups, and their functions, lines, and polylines; the importance of sites; boundary parcels and subdivision parcels; object labels; and tables.
17		AC3121	AC3121 - Using Autodesk® AutoCAD® Sync and the Autodesk® 360 Web and Mobile App to Be Productive This class covers the use of Autodesk Sync from inside of Autodesk AutoCAD and Autodesk® AutoCAD LT® software. We take a close look at using a combination of Autodesk Sync... View More90 Minutes Lecture Bud Schroeder	This class covers the use of Autodesk Sync from inside of Autodesk AutoCAD and Autodesk® AutoCAD LT® software. We take a close look at using a combination of Autodesk Sync for the desktop, and the Autodesk 360 web and mobile app. We also go over how to use each of these features separately as well as combined, and when you may want to use them.
18		CI3217-P	CI3217-P - Connecting the Dots Is for Kids: Advanced Survey Workflows in Autodesk® AutoCAD® Civil 3D® Collection and processing of survey data is a crucial foundation to any transportation project. Management and use of this data can be a tedious, segmented and error-prone... View More60 Minutes Lecture Brian Levendowski	Collection and processing of survey data is a crucial foundation to any transportation project. Management and use of this data can be tedious, segmented, and error-prone process. This is where Autodesk AutoCAD Civil 3D software comes in. Come and learn about developing your own custom survey workflow and setup in Civil 3D. Learn about the automatic linework functions in Civil 3D, cutting down your post-survey processing time to a fraction of what it was before. Understand the integration of all the background elements, such as the figure prefix databases and description key sets. This class sends you on your way to truly efficient survey workflows. Once your setup is in place you will see monumental changes in your production, standardization of your surveying processes, and flexibility with your survey data like never before.

No	区分	Type	Title	Contents
19		CR2780-R	CR2780-R - Automated Machine Guidance Is for People? Automated Machine Guidance (AMG) can be a very misleading phrase. While a machine might know what specific elevation a surface needs to be, the operator is responsible for... View More60 Minutes Roundtable Eric Cylwik	Automated Machine Guidance (AMG) can be a very misleading phrase. While a machine might know what specific elevation a surface needs to be, the operator is responsible for the finished grade. It is important that the operator have all of the information and tools necessary to ensure that the equipment is producing proper design conditions. With only grade specified in an AMG model, it is easy for any operator to not truly understand what he or she is grading and the importance of particular grades. This roundtable session focuses on an open dialog about experiences with AMG and what kinds of data should and should not be communicated with the operator. We start this session by showing what Sundt Construction's current practices are for using AMG to communicate with operations personnel and then we discuss how the standards evolved. Next, the discussion opens up for attendees to share their experiences and talk about how the perfect AMG model would look. The true value of an AMG model is how efficiently and quickly it can be executed in the field. If you have any involvement in that process this class is for you.
20		CI2967-L	CI2967-L - Autodesk® InfraWorks™ for Site Projects Does it seem like every Autodesk InfraWorks demo you see features a road or a bridge? What about site projects like schools, hospitals, big box stores, and others? In this... View More75 Minutes Hands-on Lab Eric Chappell	Does it seem like every Autodesk InfraWorks demo you see features a road or a bridge? What about site projects like schools, hospitals, big box stores, and others? In this hands-on lab, we explore the use of InfraWorks tools to create stunning 3D conceptual models of site projects.
21		CI2778-R	CI2778-R - AMG Is Not Just for Machines Automated Machine Guidance (AMG) can be a misleading phrase. While a machine knows what specific elevation a surface needs to be, operators are ultimately responsible for the... View More60 Minutes Roundtable Eric Cylwik	Automated Machine Guidance (AMG) can be a misleading phrase. While a machine knows what specific elevation a surface needs to be, operators are ultimately responsible for the grade. It is important that operators have all of the information to ensure that the equipment is producing design conditions. With only grade specified in an AMG model, it is easy for operators to not understand what they are grading and the importance of grades. This class shows how Sundt Construction uses AMG to communicate with operators. If a roadway is changing from a shoulder to a barrier, it is something operators need to know, but it is not something immediately obvious by looking at a view of a surface. By adding line work and text, it is possible to easily communicate hinge points and any other information that might aid the construction process. Learn about the importance of communicating with the operator, what to communicate, and how to do so. If your firm has technology in the field that is providing information to equipment operators, this class is for you.
22		AC2352	AC2352 - Autodesk and the Cloud This class gives you an introduction to Autodesk® 360 cloud-based services.60 Minutes Lecture Jim Awe	This class gives you an introduction to Autodesk® 360 cloud-based services.
23		GS2728-R	GS2728-R - Finding the Needle in a Haystack: Query Filters and Thematic Rules in Autodesk® AutoCAD® Map 3D Sorting through the amount of GIS data that you download can be tedious. Using query filters can reduce the amount of data displayed in the table to just what you need for... View More60 Minutes Roundtable Scott Mizsak	Sorting through the amount of GIS data that you download can be tedious. Using query filters can reduce the amount of data displayed in the table to just what you need for the task at hand. Furthermore, applying thematic rules groups like attributes together and displays them as such. In this roundtable session, we discuss a golden rule of cartography: It is not what you put on a map that makes it useful, it is what you leave off. After this class, you will be able to greatly reduce the number of entities in a shapefile to just those that apply to your project. Come and learn how to create a map that tells the story that you want to tell.
24		CI3206	CI3206 - Can’t We All Just Get Along? Advanced Workflows Between Autodesk® Revit® and Autodesk® AutoCAD® Civil 3D® “Now, now, children, let’s all play nice together.” Remind you of your childhood? Yeah, mine too. But what we’re talking about is architects and civil engineers playing... View More60 Minutes Lecture Brian Levendowski	“Now, now, children, let’s all play nice together.” Remind you of your childhood? Yeah, mine too. But what we’re talking about is architects and civil engineers playing together, specifically when it comes to coordinating Autodesk Revit and Autodesk AutoCAD Civil 3D data on the same project. This class is directed at both Revit and Civil 3D software users. That’s right, architects and civil engineers in the same room. We work in both Revit and Civil 3D, showing you proper importing and exporting of data, so it lands in the correct place automatically. We teach you how to ask for the correct data, as well as a good understanding of one another’s software. We cover how to create good topo in Revit, and how that compares to topos in Civil 3D. The tools for smooth collaboration exist in both Revit and Civil 3D, and there’s just a communication breakdown preventing truly streamlined BIM workflow between the 2 disciplines. So join us and take your projects to the next level.

No	区分	Type	Title	Contents
25		DV3016	DV3016 - Collect Data with Phone Sensors and Bring It Inside Autodesk® AutoCAD® Civil 3D® with API This class is a continuation of the AU 2012 class "CP3325: From Mobile and Through the Cloud to AutoCAD® Civil 3D®" that showed how to collect coordinate points using mobile... View More60 Minutes Lecture Augusto Goncalves	This class is a continuation of the AU 2012 class "CP3325: From Mobile and Through the Cloud to AutoCAD® Civil 3D®" that showed how to collect coordinate points using mobile with GPS-enabled devices running Android™ or Apple® iOS, and then how to store and merge those in the cloud to generate Autodesk AutoCAD Civil 3D objects. This year's class shows you how to collect more data with mobile device sensors running Android™, such as GPS, compass and camera, and then how to store and merge this data in the cloud to finally use inside Civil 3D software to create TinSurface, Parcel, and other site features. Prior knowledge of .NET programming and the Civil 3D API are required. Note that the 2012 class is available online at http://au.autodesk.com/au-online/classes-on-demand/class-catalog/2012/autocad-civil-3d/from-mobile-and-through-the-cloud-to-autocad-civil-3d.
26		AC2907	AC2907 - Autodesk® AutoCAD® 360: Design, Collaborate, and Access Your Data Anytime, Anywhere After passing the more than 11 million registered users mark, Autodesk AutoCAD 360 (formerly AutoCAD® WS) continues to revolutionize the industry. AutoCAD 360 provides... View More60 Minutes Lecture Ilai Rotbaein	After passing the more than 11 million registered users mark, Autodesk AutoCAD 360 (formerly AutoCAD® WS) continues to revolutionize the industry. AutoCAD 360 provides users with a powerful collaboration platform on both web and mobile to design, edit, and share their drawings anytime, anywhere. See how you can keep all your team in sync with the latest copy of a drawing using AutoCAD 360, and every change made by each teammate is immediately synchronized with all other team members. Take advantage of the design feed on desktop, web, and mobile to communicate and track issues between the site and the office. Capitalize on all that web and mobile has to offer including geolocation, camera, real-time collaboration, and more. Want to get more out of AutoCAD 360? Come and check out our AutoCAD 360 Pro plans. Join us and learn how AutoCAD 360 can improve your workflow and save you both time and money. The class walks you through some of the exciting new AutoCAD 360 2.0 features on the web and mobile apps.
27		GS1508-L	GS1508-L - Web-Based Data Editing with GeoREST This hands-on lab explores the configuration of GeoREST, which is used to add, view, and edit data, including both spatial data and the attributes of most spatial data types.... View More75 Minutes Hands-on Lab Gordon Luckett	This hands-on lab explores the configuration of GeoREST, which is used to add, view, and edit data, including both spatial data and the attributes of most spatial data types. Attendees will use Autodesk® Infrastructure Map Server 2014 software to digitize data onscreen and save the spatial data directly to the original data files or database.
28		AC4127-L	AC4127-L - Autodesk®360 with AutoCAD® 360 Web/Mobile: How Powerful Are These Tools? - REPEAT Ever since Autodesk® web services and mobile applications were first introduced—Autodesk® AutoCAD® 360 (formerly AutoCAD® WS) and Autodesk® 360 cloud-based services—Andrzej... View More75 Minutes Hands-on Lab Andrzej Jaskulski	Ever since Autodesk® web services and mobile applications were first introduced—Autodesk® AutoCAD® 360 (formerly AutoCAD® WS) and Autodesk® 360 cloud-based services—Andrzej Jaskulski has run his yearly “Autodesk Authorized Author Spring Laboratory” which has explored the advantages and disadvantages of this solution. Each year, after tests were complete, he has written a new book for a well-known training series in Poland called AutoCAD–Design Course. In this hands-on-lab, he shares his knowledge and experience on the power of these tools, identifies their strong and weak points, and explains how to avoid problems in individual and concurrent design workflows. Attendees have the opportunity to practice with desktop, mobile, and cloud configurations. They should also be able to assess how effective this solution can be in their business or design office. To benefit from this class, attendees should have a basic knowledge of Autodesk® AutoCAD®
29		CI2170	CI2170 - BIM for Civil Engineers: Intelligent Hydraulics and Hydrology with Autodesk® AutoCAD® Civil 3D® Autodesk AutoCAD Civil 3D software gives us many great features out-of-the-box for our day-to-day hydraulics and hydrology (H&H) modeling needs, but it's not until you dig... View More90 Minutes Lecture Curtis Smith	Autodesk AutoCAD Civil 3D software gives us many great features out-of-the-box for our day-to-day hydraulics and hydrology (H&H) modeling needs, but it's not until you dig deeper that you find it can truly bring out the "I" in BIM for civil engineers. Stop limiting your H&H workflow inside of the Autodesk® AutoCAD® software environment to simple area takeoffs. Don't limit the pipe network functionality to what comes out-of-the-box. Learn to use Civil 3D pipe networks, parcels, and catchment objects to greatly improve H&H productivity and drainage map plan production. Empower your team with the tools needed for advanced H&H workflows in Civil 3D as the data is prepared for seamless exporting into the Hydraflow Storm Sewers Extension for Civil 3D or for Autodesk® Storm and Sanitary Analysis software. This class focuses on setting up your drawing templates and shared part catalogs for enhanced H&H modeling. We do discuss workflows, but this class focuses mainly on setting up the tools that are needed to perform the workflows.

No	区分	Type	Title	Contents
30		CI1892	CI1892 - Every Point Cloud Has a Silver Lining When You Use Autodesk® InfraWorks™ Autodesk InfraWorks is one of the easiest and fastest tools to use when showing a design concept or urban planning. In this class, we go over how you can put together your... View More90 Minutes Lecture Keith Warren	Autodesk InfraWorks is one of the easiest and fastest tools to use when showing a design concept or urban planning. In this class, we go over how you can put together your site with existing data from, for example, Google Earth™ with your own data from Autodesk® AutoCAD® Civil 3D® software and using Leica HDS point cloud scans in the city model. We go over all the new user interface ribbons, show how to speed the design process, and share proposed infrastructure models to give designers a head start. Learn how to communicate visually rich infrastructure proposals to facilitate faster decision making and communicate design intent to stakeholders more effectively. Learn to create models of the existing natural and built environment quickly and easily so you can depict the local environment more realistically. Manage infrastructure proposals better by creating and managing multiple alternatives in a single model. See how to overlay GIS data by creating 3D thematic maps to help make more informed decisions, and create and import point cloud scans for stronger reality-captured models.
31		CI2321-L	CI2321-L - Grid to Ground and Beyond: Advanced Surveying La Transformations, assumed coordinates, local coordinates, custom projections, extended point attributes, geodetic scale factors, convergence angles, high accuracy GIS, DESC... View More90 Minutes Hands-on Lab Lucy Kuhns	Transformations, assumed coordinates, local coordinates, custom projections, extended point attributes, geodetic scale factor convergence angles, high accuracy GIS, DESC key codes, GPS collection, scanner collection, field to finish automation, corridor stakeout…If any of this makes sense to you, then this is the lab to attend. We do a hands-on deep dive to explore each of these topics and you are sure to walk away amazed with the surveying and data positioning powers in Autodesk® Infrastructure Design Suite that you can use to your full advantage.
32		CR2499	CR2499 - Stepping into Variable Height Retaining Walls Mechanically-stabilized earth (MSE) walls are inherently complex shapes; smoothly curving in all 3 dimensions while the structure changes shape. Modeling complex geometry for... View More90 Minutes Lecture Eric Cylwik	Mechanically-stabilized earth (MSE) walls are inherently complex shapes; smoothly curving in all 3 dimensions while the structure changes shape. Modeling complex geometry for quantity takeoff, automated machine guidance (AMG), and coordination can be accomplished using Autodesk® AutoCAD® Civil 3D® software with or without the use of Subassembly Composer (SAC). In this advanced class, we create an MSE wall that is based on construction documents. We streamline stepped profile creation, removing a data input bottleneck. We also demonstrate 2 methods for creating MSE wall assemblies and the advantages and disadvantages of using SAC. Moving onto creating the corridor itself, we discuss issues of representing profile steps and how Civil 3D can properly represent necessary detail for MSE walls. After creating the model, we briefly show quantification, visualization, and coordination. All of these steps lead up to exporting the model for AMG to enhance field productivity. At the end of this class a user who knows Civil 3D will be able to easily create a 3D MSE wall. Although this class focuses specifically on MSE walls, these same techniques can be used for any linear structure.
33		CI1934-P	CI1934-P - Civil and Building BIM Coordination for Real It almost goes without saying that the structural, architectural, and civil engineering disciplines need to coordinate closely. We need to, for example, ensure that the... View More90 Minutes Lecture Robert Clark	It almost goes without saying that the structural, architectural, and civil engineering disciplines need to coordinate closely. We need to for example, ensure that the building foundations do not clash with the utilities. Also, it is important that all parties are on the same page in regards to site coordinates to effectively coordinate and build. In this class, we build a basic site in Autodesk® AutoCAD® Civil 3D® software, then we extract the coordinates and use Autodesk® Revit® software to develop our site coordination for multiple buildings using shared coordinates. We use Autodesk® Navisworks® software to detect clashes between the Revit structural foundations and Civil 3D utilities. We produce a clash report before switching back to Revit to resolve. Finally we update the clash report with the resolution. Time permitting, we also discuss principles of using Autodesk® 360 cloud services.
34		AC1832-L	AC1832-L - Parametric Drawing in Autodesk® AutoCAD®: It's All About Relationships Relationships are everywhere, from traditional relationships like family and friends to wildly popular social networking sites like Facebook and Twitter. But did you ever... View More90 Minutes Hands-on Lab Rick Ellis	Relationships are everywhere, from traditional relationships like family and friends to wildly popular social networking sites like Facebook and Twitter. But did you ever think that your Autodesk AutoCAD software objects could have relationships? Well they can, and those relationships can be a powerful tool that can make you much more productive. The parametric drawing tools will revolutionize the way that you draw and edit objects in AutoCAD. This class introduces you to parametric drawing in AutoCAD by using both geometric and dimensional constraints to add intelligence to your objects. You learn how using Auto Constrain and Inferred Constraints can help you quickly add constraints and change your process from drafting to modeling. If you have ever wanted geometry in your drawing to update based on changes that you have made to other objects or if you have wanted to type a new value into a dimension and have the object update based on this new value, then this class is for you.
35		CI2893-L	CI2893-L - The Magic of a Dynamic Differential TIN Surface (DDTS) Ever wish that Autodesk® AutoCAD® Civil 3D® software could create a dynamically linked subgrade surface while you build and modify your finish ground surface? What is a... View More75 Minutes Hands-on Lab Creg Dieziger	Ever wish that Autodesk® AutoCAD® Civil 3D® software could create a dynamically linked subgrade surface while you build and modify your finish ground surface? What is a dynamic differential triangulated irregular network (TIN) surface? It is that magical TIN surface we have all wished there was an easier way to build. It can represent many different types of surfaces. It can be used to build a surface that represents the top of an aquifer or substrate from borehole data. It can be used to build a topsoil stripping surface for a business site design project. Best of all, it can be used to quickly build a multilevel subgrade and/or sub-base surface that is dynamically linked to your parking lot finish ground surface. It is so simple that you will leave this class by asking yourself, "Why have I not used this feature before now?"

No	区分	Type	Title	Contents
36		CI1763	CI1763 - Advanced Grading Solutions Using Autodesk® AutoCAD® Civil 3D Corridors This class takes a focused look at a couple of workflows in Autodesk AutoCAD Civil 3D software that use corridors to model surfaces with complex slope geometries. We present... View More60 Minutes Lecture David Zavislan	This class takes a focused look at a couple of workflows in Autodesk AutoCAD Civil 3D software that use corridors to model surfaces with complex slope geometries. We present several examples from actual grading projects. One example demonstrates the creation of a slope that uses target alignments and profiles to control the placement and grade of a mid-slope bench and drainage channel. The second example shows how to use default and custom subassemblies to model variable height retaining walls.
37		AC1851	AC1851 - Location, Location, Location: Live Maps in Autodesk® AutoCAD® Workflows Come and see firsthand the productivity-boosting advancements in location-based workflows for AutoCAD 2014 software, including Autodesk® AutoCAD LT® and industry-specific... View More60 Minutes Lecture Charlie Crocker	Come and see firsthand the productivity-boosting advancements in location-based workflows for AutoCAD 2014 software, including Autodesk® AutoCAD LT® and industry-specific AutoCAD products. Easily locate your design in the real world just by entering a site address and bring satellite images, maps, and field data directly into AutoCAD. This class walks you through the new location capabilities that are enabled with AutoCAD 2014. Join us to find out more about how you can collaborate and connect your office and fieldwork together with AutoCAD desktop, web, and mobile. For example, you can start your project with in-canvas live maps or use the GPS in your mobile device to accurately place yourself in your AutoCAD design where you can simply add photos, notes, and new locations as you walk through your site.
38		CI3081	CI3081 - Pointing out Autodesk® AutoCAD® Civil 3D® Points Points have many settings that can help import, create, and manage through style formats, description keys, label components and even layer controls. As we work in Autodesk... View More60 Minutes Lecture Tom Pisani	Points have many settings that can help import, create, and manage through style formats, description keys, label components and even layer controls. As we work in Autodesk AutoCAD Civil 3D software, we all start to find ways we can optimize our point data whether it’s by importing, exporting, or creation. In this class, you learn tips and tricks that will help you in your process of working with your Civil 3D points by display through styles. You learn ways to manage these points through groups and examine settings as you manage your point drawing. We also dig deeper into a Civil 3D template to help you manage points through styles and settings. I’m excited to show you options to control your points via a style through layers, text styles, and options using tips I’ve learned in the industry and from training others.
39		CI1527	CI1527 - Stack Your Sections: Tips for Building Section Sheet Efficiently Autodesk® AutoCAD® Civil 3D® software provides tools for creating section views and laying them out in preparation for printing. These tools and options work fairly well for... View More60 Minutes Lecture Steve Boor	Autodesk® AutoCAD® Civil 3D® software provides tools for creating section views and laying them out in preparation for printing. These tools and options work fairly well for people who work in the flatter parts of the world, but for those of us who design in more rugged terrain...not so much. In this class we discuss section view styles, group plot styles and how they interact. We also demonstrate a method that allows you to create stacks of variable-height section views so that the page space is used efficiently.
40		CI2424-R	CI2424-R - Autodesk® Vault in an Autodesk® AutoCAD® Civil 3D® Workflow In this roundtable session, we discuss the major components of Autodesk® Vault software including lifecycles, revisions, and categories, and how they can benefit an Autodesk... View More60 Minutes Roundtable Bryson Anderso	In this roundtable session, we discuss the major components of Autodesk® Vault software including lifecycles, revisions, and categories, and how they can benefit an Autodesk AutoCAD Civil 3D workflow. We also discuss how Vault integrates with Civil 3D software and how to navigate the Vault Explorer and Civil 3D Vault product add-on. This class helps you to understand how Vault can be implemented in a Civil 3D workflow to manage and track design and engineering data.