

00DI002

ESRI® Instructor-Led Courses

ArcInfo™

ArcSDE™

ArcIMS™

MapObject™

E d u c a t i o n S o l u t i o n s

class schedule

Personal instruction

Hands-on experience

Shared knowledge

July-December  
2000



## A r c I n f o

**What's New in ArcInfo 8** NEW

Four days \$1,600

This course provides the hands-on experience needed to understand the enhanced functionality in ArcInfo™ 8 software. Attendees accomplish GIS tasks using the new applications—ArcMap™, ArcCatalog™, and ArcToolbox™. They learn to edit with different data formats and work in the new data model (geodatabase). Participants also use various customization options in ArcInfo 8. This course is for those who use ArcInfo 8 with the Microsoft® Windows NT® operating system.

Prerequisites: This course is for experienced ArcInfo users. Participants must know how to complete basic GIS tasks with ArcInfo 7.x.

**Introduction to ArcInfo using ArcMap, ArcCatalog, and ArcToolbox** NEW

Five days \$2,000

This course focuses on the ArcInfo 8 applications—ArcMap, ArcCatalog, and ArcToolbox. GIS concepts and ArcInfo software's architecture and data model are introduced. Participants learn how to display, manipulate, analyze, report, and automate data. In a class project, attendees conduct queries, create displays, analyze data, and present the results of their analysis as a hard-copy map. This course is for those who use ArcInfo 8 with the Windows NT operating system.

Prerequisites: None. No GIS experience is necessary.

**Introduction to ArcInfo using ArcTools**

Five days \$2,000

This course provides the hands-on experience needed to understand GIS software and to perform GIS tasks using ArcInfo software. It focuses on the ARC, ARCPLOT™, and ARCEDIT™ workstation applications using ArcTools™ software. GIS concepts along with the ArcInfo procedures to automate, display, manipulate, and analyze data and create maps are covered. Participants build a spatial database, conduct queries, and create map displays using the ArcTools menu interface. This course is for those who use ArcInfo with Windows NT or UNIX® operating systems.

Prerequisites: None. No GIS experience is necessary.

**Advanced ArcInfo using ARC, ARCPLOT, and ARCEDIT**

Five days \$2,000

This course offers hands-on experience and teaches the specific techniques needed to manage tabular data, model linear and complex area data, create map products, use defined layers, and work with images. It focuses on the ARC, ARCPLOT, and ARCEDIT applications. This course is for those who use ArcInfo with Windows NT or UNIX operating systems.

Prerequisites: This course is for beginners. Registrants should complete *Introduction to ArcInfo using ArcTools* and accumulate an additional six months of experience using ArcInfo software before taking this course.

**Programming ArcInfo with Visual Basic for Applications** NEW

Five days \$2,000

This course introduces the customization framework for the new ArcInfo 8 applications—ArcMap and ArcCatalog. It teaches simple customization of the ArcInfo graphical user interface and the use of Microsoft Visual Basic® for Applications (VBA) to program ArcInfo 8 objects. Participants learn simple interface customization and VBA fundamentals and progress to programming with objects from various parts of the ArcInfo object model. This course is for those who use ArcInfo 8 with the Windows NT operating system.

Prerequisites: This course is for those who are new to programming with VBA. Registrants should be familiar with ArcMap, ArcCatalog, and object-oriented programming concepts.

**Programming ArcInfo with AML**

Five days \$2,000

This course introduces the functionality of ARC Macro Language (AML™) software and its associated menu interfaces. Participants learn to write simple AML programs and progress to creating larger utilities of moderate complexity. The course also teaches basic programming concepts and techniques.

Prerequisites: This course is for experienced ArcInfo users. Registrants should complete *Introduction to ArcInfo using ArcTools* and accumulate an additional six months of experience using command-level ArcInfo software before taking this course.

**Preparatory AML and Visual Basic for ArcInfo ODE**

Three days \$1,200

This course prepares participants for *Programming ArcInfo ODE with Visual Basic*, normally offered in the same week. It teaches fundamental AML and Visual Basic (VB) programming skills. The course introduces the AML elements used to create applications in the ArcInfo Open Development Environment (ODE). Visual Basic concepts and techniques are also covered. This course is for those who need to develop the skills to meet the prerequisites of *Programming ArcInfo ODE with Visual Basic*.

Prerequisites: This course is for those who are new to programming with AML and Visual Basic software. Registrants should be familiar with command-level ArcInfo software.

**Programming ArcInfo ODE with Visual Basic**

Two days \$800

This course provides the hands-on experience needed to create applications with Visual Basic using ArcInfo ODE. It incorporates objects and methods available with ODE and standard Microsoft Windows® components to create a seamless end user interface. The course teaches how to work with Microsoft ActiveX® controls and the automation servers provided with ODE.

Prerequisites: Introductory knowledge of Visual Basic, AML, and ArcInfo software is required. Those who do not meet the course prerequisites may enroll in the three-day course, *Preparatory AML and Visual Basic for ArcInfo ODE*, offered during the same week.

**Extending ArcInfo with Custom Components** NEW

Three days \$1,350

This course teaches experienced Visual Basic and Visual Basic for Applications programmers how to build Component Object Model (COM) components that extend ArcObjects™ and enhance ArcMap and ArcCatalog applications. It begins with a review of COM technology and Visual Basic–COM programming concepts, and then covers how to implement components as ActiveX DLLs and OCXs. Participants create components such as custom commands, tools, menus, tab views, forms, applications, and extensions. Components created in class enhance the mapping, display, query, editing, and output characteristics of ArcMap and ArcCatalog. The course shows how to package and deploy these components so they can be integrated into end user applications. The creation of stand-alone applications is also covered. These applications use ArcObjects to provide low-level support for geographic data handling, but do not require the use of ArcMap or ArcCatalog. Visual Basic is the main development language used for exercise solutions.

Prerequisites: This course is for proficient VB/VBA programmers who are familiar with the ArcInfo COM object model. It is also suitable for programmers experienced in another language (Visual C++, Delphi, etc.) who want to learn the ArcObjects architecture and proceed working with ArcObjects in their chosen language. Registrants should complete *Programming ArcInfo with Visual Basic for Applications* before taking this course or have equivalent experience programming ArcObjects with VBA. Familiarity with basic COM technologies, ActiveX, VC++, and Active Template Libraries (ATL) is beneficial. This is not an introductory class. This course does not teach developers how to create custom features within the geodatabase; it teaches how to customize the framework environment only.

# How to Register

## Registration Application

A completed registration application is required from each student. Registrations are processed on a first-come, first-served basis. It is recommended that you submit your application at least one month before your class begins. Before you mail or fax this form, contact the ESRI Learning Center at 909-793-2853, extension 1-1585, for course availability. The registration application must be signed by the student to ensure that it is processed promptly. Incomplete or unsigned registration forms will not be processed and may delay class reservations. You will receive an acknowledgment letter notifying you of your payment and seating status. Class schedules and availability are normally confirmed approximately 10 business days before the scheduled start date.

## Payment

Prepayment is required and may be made by check (payable to ESRI), credit card, preexisting contractual obligation, federal government training request, or purchase order (cash is not accepted). In order to complete your registration, proof of payment is required. Purchase orders for less than \$800 will be accepted only from U.S. federal, state, and local government agencies; U.S. educational institutions; and Fortune 500 companies. Please mail or fax your payment and registration form to the ESRI Learning Center in Redlands, California.

## Data Processing Fee and Refunds

The tuition amount includes a \$100 nonrefundable data processing fee per class. The tuition less the data processing fee will be refunded if we receive notice of cancellation at least six business days prior to the class start date. Full tuition will be charged to students who cancel five days or less before the class start date or who fail to appear for the class.

## Transfers and Substitutions

Class registrants may transfer to another class up to two times at no charge, after which a \$100 fee will be assessed for each subsequent transfer. Student substitutions (a student's place in class is filled by another person from the same organization) are allowed, provided that the ESRI Learning Center is notified in advance.

## Class Schedule Changes and Cancellations

It is sometimes necessary to change the dates a class is offered or to cancel a class. Registrants are contacted at the earliest opportunity in the event of a scheduling change or cancellation.

## Travel

Transportation to the training site is the registrant's responsibility.

**ESRI assumes no responsibility for nonrefundable travel arrangement losses resulting from course scheduling changes or cancellations.**

## Lodging

Registrants are provided a class location map and list of area hotels. Registrants are responsible for making their own lodging arrangements.

## Course Materials

All course materials are provided at the training site.

## Recommended Attire

Casual dress is suggested.

# Registration Application

STUDENT NAME AND ORGANIZATION ADDRESS (one registration form per person, please)

Student name		Organization and department	
Organization street address (no P.O. boxes)		City	State/Country
Telephone		Fax	Customer number (if known)
Provide your e-mail address if you would like to receive our training newsletter			

BILLING INFORMATION (if different than above)

Organization		Contact person	
Address		City	State/Country
Telephone		Fax	

COURSE NAME	DATE	LOCATION	PRICE *
1			
2			
3			

\*The tuition amount includes a \$100 nonrefundable data processing fee per class. Some tax will be charged, where applicable.

PAYMENT INFORMATION (Please do not send cash)

Credit card no.:	Contract no.:	P.O. no.:	Gov. req. no.:	Check no.:	Signature (required)	Exp. date:
<p><b>I understand and agree to the terms and conditions of this application.</b></p>						<p>Visa/MasterCard/American Express/Discover</p>

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Telephone: 909-793-2853, extension 1-1585 • Fax: 909-335-8233 • Internet: [www.esri.com/training](http://www.esri.com/training)