

# UCIRVINE | EXTENSION

## **Microsoft .NET Technologies Certificate Program**



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## OVERVIEW

With Visual Studio 2008, Microsoft's .NET platform has matured into a robust and versatile development environment for both Windows-based and Web-based application development. With its emphasis on XML technology and Web services, .NET allows businesses of all sizes to take advantage of the Internet for distributed computational power.

## OBJECTIVES

- Use Visual Studio 2008 to develop robust software solutions for deployment on both Windows and Web environments.
- Use the Microsoft .NET framework to full advantage for a variety of application development needs.
- Leverage the ease-of-use afforded by Microsoft's integrated development environment to create new applications rapidly.

## CERTIFICATE AWARD REQUIREMENTS

Students must complete a minimum of 15 units of coursework with a grade of "C" or better in each course in order to become eligible for the certificate. A maximum of three Core Courses may be applied toward meeting this requirement.

## PROGRAM FEES

Your total cost may vary substantially depending on the specific elective courses you choose. Course fees range from \$725 to \$1350. Note that the parking is free for all Microsoft certification courses conducted at EmpowerTrain in University Tower, across the street from the UCI campus in Irvine.

Course fees	\$6195
Candidacy Fee	\$125
Textbooks <sup>1</sup>	\$75
Parking (\$34 per quarter) <sup>2</sup>	
<b>Total Estimated Cost</b>	<b>\$6,395</b>

<sup>1</sup> The cost of course books are included in the course fees for all Microsoft certified courses. The \$75 amount included here represents a book you might have to purchase for one of the general database courses.

<sup>2</sup> Parking at EmpowerTrain is free so there will be no parking charges associated with Oracle or Microsoft courses. However, if you take either or both of the general database courses on the UCI campus, you *will* have to pay a parking fee.

Your actual cost could be more or less than this amount (most likely less because this is a conservative estimate).

## COURSE DESCRIPTIONS

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### REQUIRED COURSES

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#### I&C SCI X402.01

##### Introduction to .NET Architecture (3 units)

Learn to use Microsoft Visual Studio.NET, the .NET SDK and the .NET Framework to architect and develop web- and Windows-based applications. This course provides an overview of the .NET Framework and introduces the Visual Studio.NET toolset, including the C# and VB.NET programming languages, the Common Language Runtime, and the .NET Framework Class Library. You'll learn how to build WinForm, WebForm and Web Services applications, and how to use XML and SOAP for remote object access. You'll also gain an understanding of how to architect solutions utilizing ASP.NET, ADO.NET, and COM/COM+ compatibility. *Prerequisites: No formal prerequisites are required, but a general knowledge of multitier application development, HTML and either VB or C++ is desirable. Familiarity with ASP, XML, COM/COM+ and IIS will also be helpful.*

#### I&C SCI X402.05

##### Developing .NET Solutions with C# (3 units)

Learn C# (pronounced C-sharp), Microsoft's object-oriented programming language that combines the power of C++ with many of the features of Java. You'll learn how eXtensible Markup Language (XML) and Simple Object Access Protocol (SOAP) simplifies programming in C# and how these features can decrease the time it takes to get new products and services to market. Topics include the Common Language Runtime, the Common Type System, the .NET Framework Class Library, the .NET software development kit (SDK), and data access using Active Data Objects (ADO.NET). Upon completion of the course, you'll be ready to write short C# programs that exercise the major features of the language as well as continue your study of the .NET environment. *Prerequisites: Object-oriented programming experience with C++, Java, or Visual Basic (a minimum of one introductory course).*

### **I&C SCI X403.01**

#### **Introduction to C# Programming for the Microsoft.NET Platform (Microsoft Course 2124)**

**(3.5 units)**

Gain the knowledge and skills needed to develop C# applications for the Microsoft .NET platform. This Microsoft certified course is designed for experienced developers who already have programming experience in Visual Basic, C, C++, or Java and typically develop business solutions. The course focuses on the C# program structure, language syntax, and implementation details. C# was created to be the programming language best suited for writing .NET enterprise applications. C# combines the high productivity of Microsoft Visual Basic® with the raw power of C++. It is a simple, object-oriented, and type-safe programming language that is based on the C and C++ family of languages. *Prerequisites: Experience with programming in Visual Basic, C, C++, Java, or another programming language. Familiarity with Microsoft .NET strategy as described on the Microsoft .NET Web site: <http://www.microsoft.com/net/>*

### **I&C SCI X403.02**

#### **Programming for the Microsoft .NET Framework with C# (Microsoft Course 2349) (3.5 units)**

Expand your C# programming skills and learn how to use the features and capabilities of the Microsoft .NET Framework. This Microsoft certified course is designed for experienced developers who already have programming experience in Visual Basic, C, C++, or Java, and have begun learning C# (see prerequisites). The course provides a thorough understanding of the .NET Framework including key concepts and terminology. You'll explore .NET Framework features used to code, debug, tune, and deploy applications. *Before attending this course, students must meet the following prerequisites: Students should be proficient in the C++ or Java programming languages and have been exposed to the C# language. Students can meet these prerequisites by taking Microsoft Course 2124, Introduction to C# Programming for the Microsoft .NET Platform.*

### **I&C SCI X403.14**

#### **Core Windows Application Development with Visual Studio 2008 (Microsoft Course 2546) (2 units)**

Gain the knowledge and skills needed to develop Microsoft Windows Forms applications using Microsoft Visual Studio 2008. The workshop focuses on user interfaces, program structure, and implementation details. *Prerequisites: Familiarity with the*

*Microsoft .NET Visual Studio development environment; ability to program in a .NET-compliant language (such as VB.NET or C#); basic familiarity with XML.*

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### **ADVANCED COURSES**

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### **I&C SCI X403.11**

#### **Core Data Access Development with Visual Studio 2008 (Microsoft Course 2541) (2 units)**

Gain the knowledge and skills needed to develop data-access applications using the Microsoft .NET Framework and Microsoft Visual Studio 2008. This course show you how to access and work with data in a relational database by using Microsoft ADO.NET. You'll also learn how to create, read, and write XML data. *Prerequisites: Ability to use the Visual Studio integrated development environment and tools; familiarity with the Microsoft .NET platform; ability to create programs using a Visual Studio.NET-compliant language (such as Visual Basic.NET or C#); ability to write SQL queries; knowledge of XML.*

### **I&C SCI X403.16**

#### **Advanced Data Access with Visual Studio 2008 (Microsoft Course 2542) (1.5 units)**

This two-day instructor-led workshop provides students with the knowledge and skills needed to use advanced data access features and techniques in the Microsoft .NET Framework and Microsoft Visual Studio 2008. The workshop describes how to access data and how to implement database functionality by using Microsoft ADO.NET 2.0 and Microsoft SQL Server 2008. The workshop also describes how to locate, edit, and transform XML by using XPath and Extensible Style sheet Language for Transformations (XSLT). *Prerequisites: Microsoft Course 2541 or equivalent; ability to use delegates; familiarity with database concepts including stored procedures, triggers, and aggregates; basic knowledge of XPath; and knowledge of XSLT style sheet concepts.*

### **I&C SCI X403.12**

#### **Core Web Application Development with Visual Studio 2008 (Microsoft Course 2543) (2 units)**

Gain the knowledge and skills needed to develop Microsoft ASP.NET 2.0 Web applications using Microsoft Visual Studio 2008. This course focuses on

basic user interface development, Web site structure and functionality, and implementation details. *Prerequisites:* Use the Microsoft Visual Studio.NET integrated development environment and tools; program an application using a .NET compliant language (such as Visual Basic.NET or C#); share assemblies with other applications; understand basic XML concepts; understand HTML and client-side scripting.

#### **I&C SCI X403.13**

##### **Advanced Web Application Development with Visual Studio 2008 (Microsoft Course 2544) (1.5 units)**

Gain the knowledge and skills needed to develop Microsoft ASP.NET 2.0 Web applications using Microsoft Visual Studio 2008. You'll learn how to develop advanced user interfaces, implement advanced Web site functionality, and use other features of Visual Studio 2008. *Prerequisites:* Microsoft certified course *Core Web Application Technologies with Visual Studio 2008 (MS Course 2543)* or equivalent experience.

#### **I&C SCI X403.15**

##### **Advanced Windows Development with Visual Studio 2008 (Microsoft Course 2546) (1.5 units)**

Build upon your knowledge of Visual Studio 2008 forms development and gain the skills needed to develop advanced Microsoft Windows Forms applications. This workshop focuses on advanced techniques for building sophisticated user interfaces, elaborate program structures, and related implementation details. *Prerequisites:* *I&CSCI X403.14 Core Windows Forms Technologies with Microsoft Visual Studio 2008 (MS Course 2546)* or equivalent experience.

#### **I&C SCI X403.17**

##### **Core Distributed Application (Web Service) Development with Microsoft Visual Studio (MS Course 2548) (2 units)**

Gain the knowledge and skills needed to develop distributed applications using the Microsoft .NET Framework and Microsoft Visual Studio 2008. This workshop focuses on building distributed applications by using Web services, remoting, Microsoft Message Queuing, and serviced components *Prerequisites:* Ability to: manage a solution environment using Microsoft Visual Studio's IDE and related tools; understand the .NET

framework and common language runtime (CLR); program an application using a .NET compliant language (such as VB or C#); use XML; work with application domains, delegates and events, and use threads.

#### **I&C SCI X403.22**

##### **C# Design Patterns (Microsoft Course 2359) (3.5 units)**

Whether you're a novice computer programmer or a seasoned application developer, you don't want to re-invent the wheel whenever you have a new project! By using programming design patterns, you won't have to! Learn how to apply design patterns to your .NET development projects and gain the wisdom of an entire community of software developers. You'll learn the most frequently used programming patterns for object-oriented development with a special focus on the C# language. This Microsoft-certified course will help you build robust and high-quality software with greater efficiency, security, and confidence. The course includes a large variety of in-class demonstrations accompanied by detailed, hands-on lab exercises to help you master patterns quickly. *Prerequisites:* *Introduction to C# Programming for the Microsoft .NET Platform (MS Course 2124)* or equivalent experience developing solutions with Microsoft Visual Studio.

#### **I&C SCI X403.24**

##### **Programming with XML in the Microsoft .NET Framework (MS Course 2663) (2.0 units)**

Learn how to develop integrated applications for Windows and the web with eXtensible Markup Language (XML) in the Microsoft .NET Framework. XML can make your applications easier to build, scalable, and more flexible than ever before. You'll learn how XML is integrated into the .NET framework and about the classes associated with XML. You'll also learn how to parse and read an XML file, write and validate an XML document, query XML documents, transform XML documents, and create new XML schemas programmatically. Finally, you'll have several opportunities for hands-on practice to reinforce what you're learning. *Prerequisites:* *Introduction to C# Programming for the Microsoft .NET Platform (MS Course 2124)* or equivalent experience developing solutions with Microsoft Visual Studio.

**I&C SCI X403.36****Microsoft Silverlight Programming-User Interface and Web Service Communication (3.5 units)**

Silverlight is a multi-platform web browser plug-in that enables development of rich client side rendering and functionality with a programming environment that should be familiar to anyone that uses the standard Microsoft .Net 2.0. Silverlight provides a stand-alone, optimized and scaled down version of the .Net 2.0/3.0/3.5 CLR and class libraries built specifically for running in the partial trust sand box of a web browser. Features include standard UI controls, layout, animation, 2D drawing primitives, video and audio support along with an optimized version of network SOAP and RESTful web service support. This class expects the students to be familiar with .Net 2.0 and the C# programming language (examples will be available in Visual Basic .Net, but C# will be used for in class demos). *Prerequisites: Before attending this course, students should be familiar with .Net 2.0 (C# or Visual Basic.Net languages and class library), have some experience with IIS 5.1 (XP) or IIS 6.0 (Server 2003) or IIS 7.0 Experience in creating a very simple ASP.Net web services would be a bonus.*

**I&C SCI X403.32****Creative Techniques for Designing User Interfaces Using Microsoft Silverlight 2.0 (Microsoft Course 50147) (3.0 units)**

This course teaches developers and designers how to use the Microsoft Expression Studio product set to build rich and compelling user experiences based on the Microsoft Silverlight 2 platform. This course covers the following topics : create and manipulate images by using Microsoft Expression Design; create projects in the Microsoft Expression Blend design software; assemble and build a rich user interface (UI) by using Expression Blend; enhance the user experience by using keyboard interactivity, text effects, and ink; develop advanced animation effects; develop advanced media effects; publish a Silverlight application; customize the built-in controls; create custom user controls; create Deep Zoom Silverlight experiences. *Prerequisites: Before attending this course, students must have some familiarity with tools such as Photoshop, Flash Player, Illustrator, and Dreamweaver.*

**I&C SCI X403.33****AJAX and ASP.NET 3.5 Using C# and Visual Studio 2008 (3.0 units)**

This course provides a practical introduction to developing rich internet applications using ASP.NET AJAX and C#. Because of the rich support provided by Microsoft's AJAX tools, an ASP.NET programmer can get up and running in this new environment quickly. The course begins with a discussion of rich internet applications, which include substantial client-side code, typically JavaScript. Microsoft's AJAX tools are surveyed, and a simple AJAX application is illustrated. Students then learn about the AJAX Client Library, partial page rendering, remote-method calls, the AJAX Control Toolkit, and built-in application services. This course is current to ASP.NET 3.5 and Visual Studio 2008.

**I&C SCI X403.36****Microsoft Silverlight Programming-User Interface and Web Service Communication (Microsoft Course 6461) (3.5 units)**

Silverlight is a multi-platform web browser plug-in that enables development of rich client side rendering and functionality with a programming environment that should be familiar to anyone that uses the standard Microsoft .NET 2.0. Silverlight provides a stand-alone, optimized and scaled down version of the .NET 2.0/3.0/3.5 CLR and class libraries built specifically for running in the partial trust sand box of a web browser. Features include standard UI controls, layout, animation, 2D drawing primitives, video and audio support along with an optimized version of network SOAP and RESTful web service support. This class expects the students to be familiar with .Net 2.0 and the C# programming language (examples will be available in Visual Basic .NET, but C# will be used for in class demos).

**I&C SCI X403.37****Windows Communication Foundation (3.5 units)**

This ten-meeting instructor-led course provides students with the knowledge and skills to build and configure a Windows Communication Foundation (WCF) solution. This Course provides information on the basic WCF inter-process communication including covering the following topics: SOAP 1.1/2.0, MSMQ, HTTP/HTTPS, Tcp, Pipe, REST, Transactions, and Peer-to-peer. Details of .NET 3.0, 3.5 SP1, and .Net 4.0 will be included. This course is intended for application developers who know how to build applications in .NET using Visual Studio in either C# or VB.NET and how to use the common features of the base class library. Students can be successful in this course WITHOUT prior knowledge of advanced WS-\*, WSE, service lifecycle management, and diagnostics. *Prerequisites: Before attending this course, students should have intermediate experience developing applications using .Net 2.0. Prior experience developing or consuming Web Services is not required.*

**I&C SCI X403.38****Windows Presentation Foundation: Creating User Interface Applications on Windows (3.5 units)**

This ten-meeting instructor-led course provides students with the knowledge and skills to build and configure a Windows Presentation Foundation (WPF) solution. Class provides information on the new WPF standard controls, XAML, control styles and templates, Windows Forms interop, FlowDocuments, 2D rendering, and sound/video media. An overview of 3D support is also provided. This course is intended for application developers who know how to build simple Windows Forms applications in .Net, and how to use the common features of the .Net base class library. Please note that students can be successful in this course without prior knowledge of advanced UI threading, asynchronous programming, building custom controls from scratch, GDI, building Visual Studio add-ins, or custom designers. *Prerequisites: Before attending this course, students should have intermediate experience developing applications using .Net 2.0, previous work with Windows Forms is suggested, but not required.*

### **I&C SCI X403.39**

#### **3D Programming using Windows Presentation Foundation (3.5 units)**

This ten-meeting instructor-led course provides students with the knowledge and skills to create 3D effects using Windows Presentation Foundation. Class provides information on the new WPF 3D API in code (C# and VB.NET) and XAML. This course is intended for application developers who know how to build simple WPF applications in .NET, and how to use the common features of the .NET base class library. Please note that the nature of this topic requires linear algebra (vectors, matrix transforms, and quaternion) but students can be successful in this course without prior extensive mathematics background. *Prerequisites: Before attending this course, students should have intermediate experience developing applications using .NET 2.0 and building simple WPF applications using Visual Studio. Assumed WPF experience should include XAML, Styles, and Animation support for 2D elements and basic controls.*

### **I&C SCI X403.35**

#### **Microsoft Windows Workflow Foundation (Microsoft Course 6462A) (1.5units)**

This course provides students with the knowledge and skills to build and configure a Windows Workflow Foundation (WF) solution. Topics include: create sequential workflows, state machine workflows, implement conditional branching in a workflow, forward chain rules, handle events from the host process, consume and publish workflow services, hydrate and dehydrate workflows, create and manage transactions in a workflow.

### **I&C SCI X403.28**

#### **Visual Studio 2008: Windows Presentation Foundation (Microsoft Course 6460) (2.5 units)**

This six-meeting instructor-led course provides students with the knowledge and skills to build and configure a Windows Presentation Foundation (WPF) solution. This course is intended for application developers who know how to build Windows Forms applications and custom user controls in .NET, and how to use the common features of the base class

library. Please note that students can be successful in this course WITHOUT prior knowledge of advanced UI threading, asynchronous programming, building custom controls from scratch, GDI, building Visual Studio add-ins, or custom designers.

### **I&C SCI X403.29**

#### **Visual Studio 2008: Windows Communication Foundation (Microsoft Course 6461) (2.5 units)**

This six-meeting instructor-led course provides students with the knowledge and skills to build and configure a Windows Communication Foundation (WCF) solution. This course is intended for application developers who know how to build and consume Web services in .NET and how to use the common features of the base class library. Students can be successful in this course WITHOUT prior knowledge of advanced WS-\*, WSE, service lifecycle management, and diagnostics.

**I&C SCI X450.40****Writing Queries Using Microsoft SQL Server 2008 Transact-SQL (Microsoft Course 2778) (2.5 units)**

This course provides students with the concepts of relational databases and the powerful Transact-SQL queries for Microsoft SQL Server 2008. In this class students will learn the essential SQL skills that allow developers to write queries against single and multiple tables, manipulate data in tables, create database objects, and query metadata. In addition, the advanced features of Transact-SQL in order to query and manipulate data within the database are taught. Advanced querying and reporting techniques are explained. Topics in this course include: group and summarize data, join data from multiple tables, write queries that retrieve and modify data by using subqueries, learn data manipulation language, query text fields with full-text search, use various techniques when working with complex queries. *Prerequisites: Basic knowledge of database system.*

**I&C SCI X450.41****Update SQL Server 2005 Skills to SQL Server 2008 (Microsoft Course 6158) (2.5 units)**

This course provides students with the knowledge and skills to upgrade their SQL Server 2005 skills to SQL Server 2008. Upon completion of this course, students will be able to describe new features of SQL Server 2008, manage SQL Server 2008, optimize SQL Server 2008, secure a SQL Server 2008 Database, create and maintain highly available SQL Server 2008 databases, create and use a SQL Server 2008 data warehouse, use SQL Server 2008 Analysis Services, use SQL Server 2008 Report Services. *Prerequisites: Experienced SQL Server 2005 developers and database administrators.*

**I&C SCI X450.42****Maintaining a Microsoft SQL Server 2008 Database (Microsoft Course 6231) (3.5 units)**

Gain the knowledge and skills needed to maintain a Microsoft SQL Server 2008 database. This course addresses your job as a database administrator after you have set up a database. You'll learn how to manage database files and security, back up and restore databases, monitor SQL Server performance, and troubleshoot database problems.

You'll also learn how to transfer data among various data sources and ensure that your database remains available to users. Topics in this course include: manage database files, backup and restore databases, manage security, transfer data into and out of SQL Server, automate administrative tasks, replicate data between SQL Server instances, maintain high availability, monitor SQL Server. *Before attending this course, students must have basic knowledge of the Microsoft Windows operating system and its core functionality, working knowledge of Transact-SQL, working knowledge of relational databases.*

**I&C SCI X450.43****Implementing a Microsoft SQL Server 2008 Database (Microsoft Course 6232) (3.5 units)**

Gain the knowledge and skills needed to implement a Microsoft SQL Server 2008 database.

You'll learn how to set up a new database and prepare it to be used by individual users or external applications that need to access or manipulate data. Topics include creating database files, creating tables and assigning data types, using XML in a database, setting up and optimizing an index, enforcing data security, implementing stored procedures and functions, ensuring data integrity (constraints, triggers, and XML schemas), manage transactions and locks, and using managed code within the database. *Prerequisites: Before attending this course, students must have basic knowledge of the Microsoft Windows operating system and its core functionality, working knowledge of Transact-SQL, working knowledge of relational databases.*

**I&C SCI X450.44****Implementing and Maintaining Microsoft SQL Server 2008 Integration Services (SSIS) (Microsoft Course 6235) (2.5 units)**

This course provides students with the knowledge and skills to successfully implement an Integration Services solution in an organization. The course discusses how to develop, deploy, and manage Integration Services packages. This course covers the following topics: create an Integration Services package, implement control flow implement data flow and logging in an Integration Services, debug and implement error handling, deploy, manage and secure an Integration Services package. *Prerequisites: Before attending this course, students must have experience navigating the Microsoft Windows Server environment, experience with Microsoft SQL Server, including, SQL Server Agent, SQL Server query language (SELECT, UPDATE, INSERT, and DELETE), SQL Server System tables, SQL Server accounts (users and permissions).*

**I&C SCI X450.45****Implementing and Maintaining Microsoft SQL Server 2008 Reporting Services (Microsoft Course 6236) (2.5 units)**

This course provides students with the knowledge and skills required how to implement a Reporting Services solution in an organization. The course discusses how to use the Reporting Services development tools to create reports, and how to use the Reporting Services management and administrative tools to manage a Reporting Services solution. This course covers the following topics: create a Reporting Services report, enhance a Reporting Services report, configure report publishing and execution settings, implement subscriptions for reports, administer Reporting Services, implement custom Reporting Services applications. *Prerequisites: Before attending this course, students must have experience navigating the Microsoft Windows Server environment, and exposure to creating reports in Microsoft Access or other third-party reporting products, such as Crystal Reports.*

**Implementing and Maintaining Microsoft SQL Server 2008 Analysis Services (Microsoft Course 6232) (2.5 units)****I&C SCI X450.46**

This course teaches students how to implement an Analysis Services solution in an organization. The course discusses how to use the Analysis Services development tools to create an Analysis Services database and an OLAP cube, and how to use the Analysis Services management and administrative tools to manage an Analysis Services solution.

## Microsoft .NET Courses

Course No.	Course Title	Units
<i>Core Courses (Choose two)</i>		
I&C SCI X402.01	Introduction to .NET Architecture	3
I&C SCI X402.05	Developing .NET Solutions with C#	3
I&C SCI X403.01	Introduction to C# Programming for the Microsoft.NET Platform (Microsoft Course 2124)	3.5
I&C SCI X403.02	Programming for the Microsoft .NET Framework with C# (Microsoft Course 2349)	3.5
I&C SCI X403.14	Core Windows Application Development with Visual Studio 2005 (Microsoft Course 2546)	2
<i>Advanced Courses (Choose at least 9 units)</i>		
I&C SCI X403.11	Core Data Access Development with Visual Studio 2005 (Microsoft Course 2541)	2
I&C SCI X403.16	Advanced Data Access with Visual Studio 2005 (Microsoft Course 2542)	1.5
I&C SCI X403.12	Core Web Application Development with Visual Studio 2005 (Microsoft Course 2543)	2
I&C SCI X403.13	Advanced Web Application Development with Visual Studio 2005 (Microsoft Course 2544)	1.5
I&C SCI X403.15	Advanced Windows Development with Visual Studio (Microsoft Course 2547)	1.5
I&C SCI X403.17	Core Distributed Application (Web Service) Development with Microsoft Visual Studio 2005 (Microsoft Course 2548)	2
I&C SCI X403.22	C# Design Patterns (Microsoft Course 2359)	3.5
I&C SCI X403.23	Developing Business Process and Integration Solutions Using Microsoft BizTalk Server 2006 (Microsoft Course 2933)	3.5
I&C SCI X403.24	Programming with XML in the Microsoft .NET Framework (Microsoft Course 2663)	2
I&C SCI X403.36	Microsoft Silverlight Programming-User Interface and Web Service Communication	3.5
I&C SCI X403.35	Microsoft Windows Workflow Foundation (Microsoft Course 6462A)	1.5
I&C SCI X403.37	Windows Communication Foundation	3.5
I&C SCI X403.38	Windows Presentation Foundation: Creating User Interface Applications on Windows	3.5
I&C SCI X403.39	3D Programming using Windows Presentation Foundation	3.5
I&C SCI X403.28	Visual Studio 2008: Windows Presentation Foundation (Microsoft Course 6460)	2.5
I&C SCI X403.29	Visual Studio 2008: Windows Communication Foundation (Microsoft Course 6461)	2.5
I&C SCI X403.32	Creative Techniques for Designing User Interfaces Using Microsoft Silverlight 2.0 (Microsoft Course 50147)	3
I&C SCI X403.33	AJAX and ASP.NET 3.5 Using C# and Visual Studio 2008	3
I&C SCI X450.34	Writing Queries using MS SQL 2005 Transact-SQL (Microsoft Course 2778)	2
I&C SCI X450.40	Writing Queries Using MS SQL Server 2008 Transact-SQL (Microsoft Course 2778)	2.5
I&C SCI X450.41	Update SQL Server 2005 Skills to SQL Server 2008 (Microsoft Course 6158)	2.5
I&C SCI X450.42	Maintaining a Microsoft SQL Server 2008 Database (Microsoft Course 6231)	3.5
I&C SCI X450.43	Implementing a Microsoft SQL Server 2008 Database (Microsoft Course 6232)	3.5
I&C SCI X450.44	Implementing and Maintaining Microsoft SQL Server 2008 Integration Services (SSIS) (Microsoft Course 6235)	2.5
I&C SCI X450.45	Implementing and Maintaining Microsoft SQL Server 2008 Reporting Services (Microsoft Course 6236)	2.5
I&C SCI X450.46	Implementing and Maintaining Microsoft SQL Server 2008 Analysis Services (Microsoft Course 6234)	2.4

For the latest schedule, please visit our Web site: [http://unex.uci.edu/certificates/it/microsoft\\_dotnet/](http://unex.uci.edu/certificates/it/microsoft_dotnet/)

UNIVERSITY OF CALIFORNIA, IRVINE  
UNIVERSITY EXTENSION

APPLICATION FOR CANDIDACY

Certificate Program in Microsoft .NET Technologies

This form must be submitted, along with a filing fee of \$125, prior to completion of the third course in the Program.

NAME  Mr.  Mrs.  Ms.

HOME ADDRESS

CITY

STATE

ZIP

PHONE: DAY

EVENING

SOCIAL SECURITY NUMBER

JOB TITLE

EMPLOYER

EMPLOYER ADDRESS

***Payment must be included with application.***

MY CHECK FOR \$125 IS ENCLOSED (Payable to Regents of University of California).  
CANDIDACY FEE IS NONREFUNDABLE AND NONTRANSFERABLE.

CHARGE TO:  VISA  MASTERCARD  AMERICAN EXPRESS

ACCOUNT NUMBER

EXP DATE

AUTHORIZED SIGNATURE

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