Form Version: February 2001

EFFECTIVE TERM: FALL 2002

# PALOMAR COLLEGE
# COURSE OUTLINE OF RECORD FOR
# DEGREE CREDIT COURSE

x___ Transfer Course x___ A.A. Degree applicable course
(check all that apply)

**COURSE NUMBER AND TITLE:** CSIS 282 C# Programming

**UNIT VALUE:** 3

**MINIMUM NUMBER OF SEMESTER HOURS:** 64

**BASIC SKILLS REQUIREMENTS:** Appropriate language and computational skills

**ENTRANCE REQUIREMENTS**

**PREREQUISITE:** None

**COREQUISITE:** None

**RECOMMENDED PREPARATION:** CSIS 137/ R CSIS 137

**SCOPE OF COURSE:**

Skills required to use the C# programming language in the .NET Framework, build both server-side programs and with Windows applications, accessing data with ADO.NET, use C# with Web Forms and using C# with the .NET CLR

**SPECIFIC COURSE OBJECTIVES:** The successful student will be able to:

1. Build applications with C# that run in the .NET Framework.
2. Build Windows applications with C#
3. Use Web Forms
4. Access data within C# programs using ADO .NET
5. Deploy C# applications with the .NET CLR

**CONTENT IN TERMS OF SPECIFIC BODY OF KNOWLEDGE:**

I. C# and the .NET Framework
II. C# Language Fundamentals
III. Classes and Objects
IV. Inheritance and Polymorphism
V. Operator Overloading
VI. Structs
VII. Interfaces
VIII. Strings and Regular Expressions
IX. Handling Exceptions
X. Delegates and Events
XI. Accessing Data with ADO.NET
XII. Programming Web Applications with Web Forms
XIII. Programming Web Services
XIV. Assemblies and Versioning
XV. Attributes and Reflection
XVI. Marshalling and Remoting
XVII. Threads and Synchoronization
XVIII. Streams
XIX. Programming .NET and COM

**REQUIRED READING:**

Liberty, Jesse. *Programming C#*, 1st Ed. Sebastopol, CA: O'Reilly & Associates, 2001
ISBN: 0596001177

**SUGGESTED READING:** None

**REQUIRED WRITING:** None

**OUTSIDE ASSIGNMENTS:**

**Students are expected to spend a minimum of three hours per unit per week in class and on outside assignments, prorated for short-term classes.**

Outside assignments will include completion of lab work, assigned readings from the text books, and homework problems.

**INSTRUCTIONAL METHODOLOGY:**

**Check all that apply:**
_x___ lecture
_____ laboratory
_x___ lecture-laboratory combination
_____ directed study

**DISTANCE LEARNING:**

**This course may be offered as a distance learning course and meets Title 5 regulations 55370, 55372, 55374, 55376, 55378, and 55380.**
Yes _x_ No____

**If yes, check all that apply:**
_____ Television Course (Video one-way, e.g. ITV, video cassette, etc.)
_x_____ Online Course (Text one-way, e.g. newspaper, correspondence, electronic file, etc.)
_____ Two-Way Video Conferencing (Two-way interactive video and audio)
_____ One-Way Video Conferencing (One-way interactive video and two-way interactive audio)
_____ Computer Assisted Instruction (A specialized form of mediated instruction relying primarily on student access to information and prepared lessons or teaching materials through a computer terminal, but not under immediate supervision of a qualified instructor.)

**GRADING POLICY AND STANDARDS** (include methods of determining whether the stated objectives have been met by students):

70-100% Programming assignments
0-30% Examinations

**IS COURSE REPEATABLE FOR REASON(S) OTHER THAN DEFICIENT GRADE?**
Yes ____ No _x_ Number of times course may be taken for credit: ____

If yes, identify specific provision of Title 5 Division 2 section(s), 55761-55763 and 58161 which qualifies course as repeatable: 58161 (C) (2) (A)

**CONTACT PERSON:** Steve Perry x2219

SIGNATURES ON FILE