COLLIN COLLEGE

COURSE SYLLABUS

Course Information

Course Number: ITSE 1330

Course Title: Introduction to C# Programming

Course Description: A study of C# syntax including data types, control structures, functions, syntax, and semantics of the language, classes, class relationships, and exception handling.

Course Credit Hours: 3
Lecture Hours: 3
Lab Hours: 1

Prerequisite: COSC 1315 or COSC 1436 or ITSE 1332 or consent of Instructor or Associate Dean ~~Department Chair~~

Student Learning Outcomes:

- **State-mandated Outcomes:** Upon successful completion of this course, students will:
  1. Implement C# classes, objects, and class relationships.
     (SCANS: F1, F4, F6, F7, F8, F9, F10, F11, C1, C6, C11, C12, C13, C14, C15, C16, C17, C19, C20)
  2. Develop and write programs applying Object Oriented principles using C#.
     (SCANS: F1, F4, F6, F7, F8, F9, F10, F11, C1, C6, C11, C12, C13, C14, C15, C16, C17, C19, C20)
  3. Create member functions using C# syntax and exception handling.
  4. (SCANS: F1, F4, F6, F7, F8, F9, F10, F11, C1, C6, C11, C12, C13, C14, C15, C16, C17, C19, C20)
- **Additional Collin Outcomes:**
  1. Develop a Windows Form application.
     (SCANS: F1, F4, F6, F7, F8, F9, F10, F11, C1, C6, C10, C11, C12, C14, C17, C19, C20)
  2. Write a program using methods.
     (SCANS: F1, F4, F6, F7, F8, F9, F10, F11, C1, C6, C10, C11, C12, C13, C14, C15, C16, C17, C19, C20)
  3. Write an event handler “on-the-fly”.
     (SCANS: F1, F4, F6, F7, F8, F9, F10, F11, C1, C6, C11, C12, C13, C14, C15, C16, C17, C19, C20)
  4. Develop an application using a collection data structure.
     (SCANS: F1, F4, F6, F7, F8, F9, F10, F11, C1, C6, C11, C12, C13, C14, C15, C16, C17, C19, C20)
  5. Develop a multi-form application with message passing.
     (SCANS: F1, F4, F6, F7, F8, F9, F10, F11, C1, C6, C11, C12, C13, C14, C15, C16, C17, C19, C20)
  6. Write a program that creates and uses an indexer.
     (SCANS: F1, F4, F6, F7, F8, F9, F10, F11, C1, C6, C11, C12, C13, C14, C15, C16, C17, C19, C20)
  7. Develop an application that uses inheritance and abstract/sealed classes.
     (SCANS: F1, F4, F6, F7, F8, F9, F10, F11, C1, C6, C11, C12, C13, C14, C15, C16, C17, C19, C20)
  8. Write a program that creates and uses an interface.
     (SCANS: F1, F4, F6, F7, F8, F9, F10, F11, C1, C6, C11, C12, C13, C14, C15, C16, C17, C19, C20)
  9. Write a program that creates and uses generic classes.
     (SCANS: F1, F4, F6, F7, F8, F9, F10, F11, C1, C6, C11, C12, C13, C14, C15, C16, C17, C19, C20)
  10. Develop a comprehensive OOP application using C#.
     (SCANS: F1, F4, F6, F7, F8, F9, F10, F11, C1, C6, C11, C12, C13, C14, C15, C16, C17, C19, C20)

~~1. Develop a Windows Form application.~~
~~2. Write a program using methods.~~
~~3. Write an event handler “on-the-fly”.~~
~~4. Develop an application using a collection data structure.~~
~~5. Develop a multi-form application with message passing.~~
~~6. Write a program that defines classes and creates class objects.~~
~~7. Write a program that creates and uses an indexer.~~
~~8. Write an exception handler.~~
~~9. Write a program that throws and catches an argument exception.~~

~~10. Develop an application that uses inheritance and abstract/sealed classes.~~
~~11. Write a program that creates and uses an interface.~~
~~12. Write a program that creates and uses generic classes.~~
~~13. Develop a comprehensive OOP application using C#.~~

Secretary's Commission on the Acquisition of Necessary Skills (SCANS) - SCANS skills are a group of foundational skills and workplace competencies that the Secretary's Commission on the Acquisition of Necessary Skills established as vitally important for workplace success in the 21st century. In Collin's workforce programs, the SCANS skills are developed and reinforced throughout the curriculum to provide students with an opportunity to hone these skills/competencies in the context of their education. Over the course of an entire degree program, the successful student is expected to demonstrate all of the SCANS skills and competencies as part of their education. The SCANS Foundation Skills and Workplace Competencies are described at:
http://www.collin.edu/academics/programs/Workforce_SCANS_Skills_Syllabi_Code_Key.pdf

Withdrawal Policy: See the current *Collin Registration Guide* for last day to withdraw.

Collin College Academic Policies: See the current *Collin Student Handbook.*

Americans with Disabilities Act Statement: Collin College will adhere to all applicable federal, state and local laws, regulations and guidelines with respect to providing reasonable accommodations as required to afford equal educational opportunity. It is the student's responsibility to contact the ACCESS office, SCC-D140 or 972.881.5898 (V/TTD: 972.881.5950) to arrange for appropriate accommodations. See the current *Collin Student Handbook* for additional information.