Oklahoma State University Institute of Technology Face-to-Face Common Syllabus Fall 2017

ITD 1253 Object-Oriented Programming Using C#

Students learn how to design, code, and test applications in C# using object-oriented programming techniques. Topics include classes, data types, variables, methods, recursion, operators, control statements, inheritance and polymorphism, arrays, packages, interfaces, Input/Output, and strings.

Course Purpose:

This course teaches the student the basics of object oriented programming using C# and Visual Studio.

Type of Course: Theory/Lab Credit Hours: 3; Total clock hours of theory per semester: 30; Total clock hours of lab per semester: 45; Total clock hours of clinical per semester: n/a; Class Length: Full Semester Class Days and Times: M/W 9:30am – 11:50am Prerequisites: ITD-1033

Instructor Name:Jim StrotherInstructor Phone: (918) 293-4798Office:ET/IT 15EInstructor email:Contact:The preferred method of contact is email.Please allow 24-48 hours to returncorrespondence during the normal work week.

Instructor's Office Hours:

Monday/Wednesday - 8:00 am to 9:30 am, 1:00pm to 3:30pm Tuesday/Thursday - 8:00am to 11:30am, 1:00pm to 3:30pm

Other times available by appointment

School Name: Information Technologies **School Phone:** (918) 293-5440

REQUIRED TEXT, REFERENCES, AND MATERIALS

Texts:

Murach's C# 2015, Joel Murach, ISBN 978-1-890774-94-3

References:

Access to the Web site http://www.murach.com

Online Classroom

Materials:

Portable Drive/USB Drive, pencil(s), notebook paper, broadband Internet access.

Visual Studio 2015

Uniform/Tools:

none

Estimated Cost for Text:	\$58
Estimated Cost for Materials:	\$20
Estimated Cost for Uniform/Tools:	\$0
Total Estimated Cost	\$76

COURSE OBJECTIVES		ASSESSMENT OF OBJECTIVE	
A.2	demonstrate proficiency in the use of a programming language to solve complex problems in a secure and robust manner	Programming Labs*	
J.2	write simple and compound conditions within a programming language or similar environment (e.g., scripts, macros, SQL)	Programming Labs*	
M.4	demonstrate knowledge of industry standard software development best practices	Programming Labs*	

Upon completion of the course, students should:

*Aspects of the competency assessments may be used in the university's assessment of student learning.

COURSE ACTIVITIES

In this course students will:

- Write C# classes and interfaces
- Create Object Oriented designs
- Implement Object Oriented designs in C#
- Document Object Oriented designs
- Use a C# Integrated Development Environment (IDE)
- Complete programs that illustrate Object Oriented Programming concepts and philosophies utilizing C#.
- > Apply problem-solving skills to real-world problems.
- Participate in class discussions and class activities
- > Participate in group and individual presentations.
- Take examinations and quizzes

EVALUATION - GRADES WILL BE BASED ON THE QUALITY AND COMPLETION

OF THESE TASKS: (NOTE-Please indicate the course specific evaluations. List assignment(s) used in the university's assessment of student learning as separate line items and marked with an asterisk.)

Programming Assignments In-class activities – Review Ouestions	35% 15%	OSUIT Grading Scale
Section Exams	30%	A = 90%-100%
Digital Course Portfolio	5%	B = 80% - 89%
Professional Development**	5%	C = 70% - 79% D = 60% - 60%
Final Exam*	10%	F = 59% & below
TOTAL	100%	

*The student's grade for this assignment will be used in the university's assessment of student learning. A 70% competency or higher receives a Pass rating. This Pass/Fail rating is independent of the student's course grade.

** Information Technologies students are expected to participate in professional development activities as defined in the supplemental professional development activity guidelines in the online classroom.

Daily and/or weekly quizzes, small weekly assignments and similar type projects: Normal return time to student by next class meeting or no later than one (1) week.

Extensive assignments, large lab projects, extensive quizzes, exams and similar type projects: Normal return time to students in one (1) to two (2) weeks.

RECOMMENDED STUDENT COMPETENCIES/SKILLS

Students will need to have successfully completed the prerequisite course.

AUTHORIZED TOOLS

Students may use any/all course materials, including books and notes, while participating in classroom activities with the exception of-class exams. All quizzes, exams, and written assignments are to be completed independently; no collaboration with classmates is permitted and any instance of such will be considered academic dishonesty.

The class requires programs to be written and submitted as part of the grade. The programs are expected to be completed in C# only. Other programming languages are not acceptable for submission of assignments in this class.

LATE WORK POLICY

Assignments must be completed and submitted on time. Absence or personal problems will not be considered an excuse for submitting assignments late. Late assignments are accepted only at the instructor's discretion and an adjustment may be assessed to the grade. Class demonstrations, workshops and/or training sessions will not be repeated. If a student is to be absent, it is the student's responsibility to make sure the work is submitted by the due date and time. To meet course competencies, students will be required to complete all assignments and course work.

TESTING

Exams:

Regular exams may include any combination of multiple choice, matching, true/false, fill in the blank, completion, hands on projects, programming assignments, essay and/or short answer questions. Exams may be taken early at the discretion of the instructor. Exams may not be taken late unless there is an accepted, excused, and documented absence.

Exams will be given on the date and time set by the instructor. Make-up exams will not be given without proper documentation. Make-up exams will only be given at times arranged with the instructor.

OTHER LAB AND CLASSROOM POLICIES

Each assignment must contain a heading. Headings for assignments in this course include your name, due date, course ID, and instructor name. This heading is used for both electronic and hard copy work. Failure to use the correct heading will result in a reduction of points from the final assessment score of the assignment. Assignments submitted with no name will not be graded.

Course Name	ITD 1253 – Object Oriented Programming with C#
Instructor	Jim Strother
Student Name	<student here="" name=""></student>
Due date	<assignment date="" due="" here=""></assignment>
Grade	<grade earned="" here=""></grade>
Grading Comments	<instructor comments="" here=""></instructor>

This is the heading table template.

<u>SYLLABUS ATTACHMENT</u> View the Syllabus Attachment, which contains other important information, by visiting <u>http://osuit.edu/center/student_syllabus_information</u>

	Course Schedule	
Module	Topics and Competencies	Assignment(s)
1	 Class Introduction Class Orientation Chapter 1: How to get started with Visual Studio 	 Read Chapter 01 Chapter Assignments Chapter Exercises Chapter Programming Labs
2	• Chapter 2: How to design a Windows Forms application	 Read Chapter 02 Chapter Assignments Chapter Exercises Chapter Programming Labs
3	• Chapter 3: How to code and test a Windows Forms application	 Read Chapter 03 Chapter Assignments Chapter Exercises Chapter Programming Labs
	End of Section 1	•
09/18 - 09/27	Section 1 Exam	Section 1 Exam Programming Portion
09/18 - 09/24	Section 1 Exam	Section 1 Exam Theory Portion
4	• Chapter 4: How to work with numeric and string data	 Read Chapter 04 Chapter Assignments Chapter Exercises Chapter Programming Labs Section 1 Exam

	Course Schedule	
Module	Topics and Competencies	Assignment(s)
5	Chapter 5: How to code control structures	 Read Chapter 05 Chapter Assignments Chapter Exercises Chapter Programming Labs
6	• Chapter 6: How to code methods and event handlers	 Read Chapter 06 Chapter Assignments Chapter Exercises Chapter Programming Labs
7	Chapter 7: How to handle exceptions and validate data	 Read Chapter 07 Chapter Assignments Chapter Exercises Chapter Programming Labs
	End of Section 2	
10/16 - 10/25	Section 2 Exam	Section 2 Exam Programming Portion
10/16 - 10/22	Section 2 Exam	Section 2 Exam Theory Portion
8	• Chapter 8: How to work with arrays and collections	 Read Chapter 08 Chapter Assignments Chapter Exercises Chapter Programming Labs Section 2 Exam

	Course Schedule		
Module	Topics and Competencies	Assignment(s)	
9	• Chapter 9: How to work with dates and strings	 Read Chapter 09 Chapter Assignments Chapter Exercises Chapter Programming Labs 	
10	Chapter 10: More skills for working with Windows forms and controls	 Read Chapter 10 Chapter Assignments Chapter Exercises Chapter Programming Labs 	
	End of Section 3		
11/06-11/15	Section 3 Exam	Section 2 Exam Programming Portion	
11/06-11/12	Section 3 Exam	Section 2 Exam Theory Portion	
11	• Chapter 12: How to create and use classes	 Read Chapter 12 Chapter Assignments Chapter Exercises Chapter Programming Labs Section 3 Exam 	
12	• Chapter 13: How to work with indexers, delegates, events, and operators	 Read Chapter 13 Chapter Assignments Chapter Exercises Chapter Programming Labs 	

	Course Schedule	
Module	Topics and Competencies	Assignment(s)
13	• Chapter 14: How to work with inheritance	 Read Chapter 14 Chapter Assignments Chapter Exercises Chapter Programming Labs

Course Schedule	
Topics and Competencies	Assignment(s)
End of Section 4	
Final Exam – Lab	 Comprehensive Final Exam – Lab Programming Assignment
Final Exam – Theory	 Final Course Portfolio (due 8/20) Comprehensive Final Exam – Theory Portion
Course Portfolio	Final course portfolio due: 12/14/2017
	Course Schedule Topics and Competencies End of Section 4 Final Exam – Lab Final Exam – Theory Course Portfolio

Schedule is subject to change at instructor discretion.