### Administrative - Master Syllabus

**Course Title** - Object-Oriented Programming  
**Course Prefix and Number** - ITSE 2321  
**Course Type** (check one):  
- □ Academic General Education Course (from ACGM – but not in WCJC Core)  
- □ Academic WCJC Core Course  
- ✗ WECM course (This course is a Special Topics or Unique Needs Course: Y or N)  

<table>
<thead>
<tr>
<th>Semester Credit Hours #: Lecture Hours #: Lab/Other Hours #:</th>
<th>3:2:2</th>
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</thead>
</table>

**Equate Pay hours for course** - 3  

**Course Catalog Description** - Introduction to object-oriented programming. Emphasis on the fundamentals of design with classes, including development, testing, implementation, and documentation. Includes object-oriented programming techniques, classes, and objects.  

**Prerequisites/Co-requisites** - COSC 1436  

**Prepared by:** Donna Schilling  
**Date:** 07-19-2015  

**Reviewed by Department Head:** Donna Schilling  
**Date:** 07-19-2015  

**Accuracy verified by Division Chair:** David Kucera  
**Date:** 8/12/15  

**Approved by Dean or Vice President of Instruction:** Leigh Ann Collins  
**Date:** 12-18-15
I. Topical Outline – Each offering of this course must include the following topics (be sure to include information regarding lab, practicum, clinical or other non-lecture instruction):

Topics Covered
- Selection
- Repetition
- Methods
- User-Defined Simple Data Types
- Arrays
- Strings
- Classes
- Inheritance
- Abstract Class
- Interfaces
- Polymorphism
- Generic classes
- Use UML to describe classes and objects, and Windows Programming.

II. Course Learning Outcomes

This course incorporates the National Workforce Center for Emerging Technologies Programming/Software Engineering skill standards recognized by the Texas Skill Standards Board.

<table>
<thead>
<tr>
<th>Learning Outcomes</th>
<th>Methods of Assessment</th>
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<tbody>
<tr>
<td>Upon successful completion of this course, students will: Develop executable programs; create appropriate documentation; and create programs using classes and objects using object-oriented programming techniques.</td>
<td>All outcomes will be assessed by one or more of the following: Projects Tests and Quizzes Lab Assignments Final Exam</td>
</tr>
</tbody>
</table>

III. Required Text(s), Optional Text(s) and/or Materials to be Supplied by Student.

- Required text: Barbara Doyle, C# Programming 4th From Problem Analysis to Program Design, Course Technology/CENGAGE Learning, ISBN 9781285096261
- USB Flash Drive
- High-speed Internet Connection

IV. Suggested Course Maximum –
24 – Sugar Land Campus/Online
20 – Richmond Campus
20 – Main Campus
V. List any specific spatial or physical requirements beyond a typical classroom required to teach the course.
Current Operating System and Current Visual Studio.

VI. Course Requirements/Grading System – Describe any course specific requirements such as research papers or reading assignments and the generalized grading format for the course

<table>
<thead>
<tr>
<th>Course Requirements</th>
<th>Grading System –</th>
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<tbody>
<tr>
<td>Programming Assignments</td>
<td>100 -90</td>
</tr>
<tr>
<td>Final Project</td>
<td>89 - 80</td>
</tr>
<tr>
<td>Midterm Exam</td>
<td>79 - 70</td>
</tr>
<tr>
<td>Final Exam</td>
<td>69 - 60</td>
</tr>
<tr>
<td>Attendance &amp; Participation</td>
<td>and below</td>
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<tr>
<td>20-40%</td>
<td>= A</td>
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<td>20-40%</td>
<td>= B</td>
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<td>40-60%</td>
<td>= D</td>
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<td>0-20%</td>
<td>and below</td>
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VII. Curriculum Checklist

☐ - Academic General Education Course (from ACGM – but not in WCJC Core)
   No additional documentation needed

☐ - Academic WCJC Core Course
   Attach the Core Curriculum Checklist, including the following:
   • Basic Intellectual Competencies
   • Perspectives
   • Exemplary Educational Objectives

☒ - WECM Courses
   If needed, revise the Program SCANS Matrix & Competencies Checklist.