**COLLIN COLLEGE**

**COURSE SYLLABUS**

Course Information

**Course Number:** INEW 2340

**Course Title:** Object Oriented Design

**Course Description**: A study of large system analysis and design concepts from the object-oriented perspective. Includes determining required objects and their interfaces. Also covers relationships between objects.

**Course Credit Hours**: 3

Lecture Hours: 3

**Prerequisite:** COSC 1337 or COSC 1437 or consent of Associate Dean

**Student Learning Outcomes:**

* **State-mandated Outcomes:** Upon successful completion of this course, students will:
  1. Use tools and methods to design and prepare specifications.
  2. Develop object oriented algorithms to create solutions.
  3. Research new methods, tools, and techniques used in object oriented problem solutions.
  4. Evaluate the design for accuracy.
* **Additional Collin Outcomes**: Upon successful completion of this course, students will:

1. Demonstrate Competency in Creating an Object Oriented Design.
   1. Read and explain a requirements document.
   2. Show the design using standard techniques and methodologies.
   3. Explain the design to others in your group.
2. Demonstrate Competency using Various Tools in Documenting an Object Oriented Design
   1. Write a description of the design in a way for others in the group to follow.
   2. Use standard techniques and methodologies for documentation.
3. Demonstrate Competency in Developing Object Oriented Algorithms.
   1. Explain each step in the design process followed to the others in the group.
4. Demonstrate Competency in Research into new Object Oriented Design Techniques and Methodologies.
   1. Explain the techniques and methodologies obtained from independent research of the literature.
5. Demonstrate Competency in Testing the Correctness and Completeness of an Object Oriented Design.
   1. Provide a logical proof that the design produced is correct.
   2. Explain the proof to others in the group.

**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.

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