

CSC 125 Object Oriented Programming I

(3 contact hours – 2 lab hour - 3 credits)

Syllabus¹

- General Information**

Instructor	
Office	
Phone	
Class Time	
Class Location	
Office Hours	
Teaching Assistant	

- Required Textbook**

Introduction to Java Programming: Brief Version, 10th Edition, by [Y. Daniel Liang](#) ISBN-13: [978-0133592207](#) **Publisher:** Pearson; 10 edition.

- Supplementary Textbook**

Objects First with Java: A Practical Introduction Using BlueJ, 5th Edition, [David J. Barnes](#), [Michael Kölling](#), Pearson, 2011.

- Course Description**

Programming fundamentals from an object oriented design perspective. Topics include: basic procedural concepts, objects, classes, interface, methods, encapsulation, information hiding, and inheritance.

- Course Prerequisites**

CSC 122

- Course Category**

Required

¹ This syllabus may change as needed. In such a case, students will be informed accordingly

- **Course Outcomes:**

At the completion of this course, students will be able to:

1. Describe and use basic principles of object oriented programming (OOP). [ABET a]
2. Analyze a simple problem based on its natural language description and design an object oriented solution. [ABET b, c]
3. Convert basic UML class design into a computer program. [ABET c, i]
4. Construct maintainable code by using good design and code conventions [ABET a]
5. Use appropriate software development tools that support OOP. (Lab) [ABET c, i]

- **Tentative Schedule**

Topic	Week
Syllabus and Review	1
Ch1: Objects and classes	2,3,4
Ch2: Understanding class definitions	5,6
Ch3: Object interaction	7,8
Ch4: Grouping objects	9,10,11
Ch5: More sophisticated behavior	12,13
Ch7: Well-behaved objects	14.15

- **Grading Scheme**

Lab Work	10%
Programming Assignments	10%
Quizzes	15%
Midterm Exam	25%
Final Exam	40%