

CREDIT FOR PRIOR LEARNING EXAMINATION

CSC 360– OBJECT-ORIENTED PROGRAMMING II

Course Description

CSC 360 Object-Oriented Programming II
(3 credits)

Intermediate object-oriented programming concepts and practice: inheritance, basic graphical user interface elements; introduction to recursion; implementation of linked lists; use of basic container types.

Study Resources

Introduction to Java Programming and Data Structures, 11th edition, Y. Daniel Liang, Pearson, chapters 12-21 and 24.

Exam Details

This examination is designed to determine whether student have sufficient knowledge and skill in advanced object-oriented programming in Java. Specifically, the exam requires that students be able to write and analyze code, and answer questions on the following topics:

- Exception handling through try-catch blocks, including knowledge of the more common Exceptions
- Implementing abstract and interface classes and implementing interfaces
- Implementing Generics and understanding the role of placeholders
- Understanding recursion and being able to write and read recursive code
- Implementing action handlers and interacting with GUI components (the student will not need to write code to build a GUI or create Graphics)
- Understand how the various Java Collection Framework classes operate and in particular, understand how data are organized/stored in JCF classes such as ArrayLists, LinkedLists, Stacks, PriorityQueuees, Maps, Hashes, Sets
- How to implement the List ADT, both ordered and unordered, using both arrays and linked lists

This is an open-book and open-notes exam. It is recommended that the student use the Liang text but any Java text is acceptable. The exam is 120 minutes. Students who fail this exam will not be permitted to retake it.

For questions regarding this exam, please contact Richard Fox (foxr@nku.edu).



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