Module 3 - Exceptions

# Overview and Objectives

## TODO OVERVIEW

## COURSE LEVEL OBJECTIVES (CLO)

Upon completion of this course, you should be able to:

1. Construct modern high quality software systems and reason about them.
2. Properly define software specifications and rep-invariants.
3. Leverage immutability to properly construct threat safe programs.
4. Explain object-oriented concepts such as information hiding, encapsulation, data and type abstraction, and polymorphism.
5. Properly use exception handling
6. Identify when it is appropriate to use inheritance and generics.

## TODO MODULE LEVEL OBJECTIVES (MLO)

Upon completion of this module’s activities, you should be able to:

# Module Video (Wiley-Produced w/Dan Ramos) [3-5 minutes]

# Learning Materials [~100 pages, ~3.5 hours]

## TEXTBOOK READINGS

* Barbara Liskov with John Guttag. Program Development in Java. Addison Wesley, 2001, ISBN 0-201-65768-6.
  + Chapter 4: Exceptions

# TODO Module 3 Learning Unit 1 – Benefits of Abstractions (MLO 1) [~0.5 hour]

# TODO Module 3 Learning Unit 2 – Program Specifications and Abstractions (MLO 1, 2) [~2.5 hour]

## Instructor Screencast: TITLE

# TODO Module 3 Learning Unit 2 – Program Specifications and Abstractions (MLO 1, 2) [~2.5 hour]

# Exercise (MLO 1, 2, 3) [.5 hours]

# Exercise (MLO 1, 2, 3) [.5 hours]

# Module 3 Assignment – (MLO 1, 2) [~2 hours]

## Purpose

## Instructions

## Deliverable

* Submit a .java file for your implementation.

## Due Date

Your assignment is due by Sunday 11:59 PM, ET.

# TODO Module 1 Quiz (MLO 1, 2) [~.5 hour]

## Purpose

Quizzes in this course give you an opportunity to demonstrate your knowledge of the subject material.

## Instructions

The quiz is 30 minutes in length. The quiz is closed-book.

## Deliverable

Use the link above to take the quiz.

## Due Date

Your quiz submission is due by Sunday 11:59 PM, ET.