

## Master Syllabus

### CIS 2212 - Java Software Development I

**Division:** Business and Public Services

**Department:** Computer Information Systems

**Credit Hour Total:** 3.0

**Lecture Hrs:** 3.0

**Prerequisite(s):** CIS 1111

**Date Revised:** February 2014

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#### Course Description:

Introduction to Java software development. Topics include object orientation, Java syntax, data types, logic structures of sequence, selection and iteration, processing calculations, files, methods, classes and objects, graphical user interface (GUI) applications, arrays and the ArrayList class, problem analysis and Java software solution design, coding and testing.

#### General Education Outcomes:

- Critical Thinking/Problem Solving Competency

#### Course Outcomes:

##### Java Syntax and Coding Conventions

Create classes using Java syntax, instructions, and coding conventions.

**Assessment Method:** Locally developed exams

**Performance Criteria:** 70% or higher on a standard rubric

**Assessment Method:** Simulations

**Performance Criteria:** 70% or higher on a standard rubric

##### Logic Structures, Data Types, and Processing Calculations

Develop Java software solutions that use appropriate logic structures, data types, and processing calculations.

**Assessment Method:** Locally developed exams

**Performance Criteria:** 70% or higher on a standard rubric

**Assessment Method:** Simulations

**Performance Criteria:** 70% or higher on a standard rubric

##### Problem Analysis, Solution Design, Coding and Testing

Analyze problem assignments and design, code and test Java software solutions at a beginning level.

**Assessment Method:** Locally developed exams

**Performance Criteria:** 70% or higher on a standard rubric

**Assessment Method:** Simulations

**Performance Criteria:** 70% or higher on a standard rubric

#### Outline:

Object-Orientation  
Java Syntax  
Data Types  
Logic Structures of Sequence, Selection and Iteration  
Processing Calculations  
Files  
Methods  
Classes and Objects  
Graphical User Interface (GUI) Applications  
Arrays and the ArrayList Class  
Text Processing  
Wrapper Classes  
Problem Analysis  
Java Software Solution Design, Coding and Testing