

## Master Syllabus

### CIS 2217 - Java Software Development II

**Division:** Business and Public Services

**Department:** Computer Information Systems

**Credit Hour Total:** 3.0

**Lecture Hrs:** 3.0

**Prerequisite(s):** CIS 2212

**Date Revised:** June 2014

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#### Course Description:

This course builds on prior Java studies and includes classes and objects, text processing, wrapper classes, returning objects from methods, aggregation, inheritance, polymorphism, exception handling, advanced file input/output, JList component, JComboBox component, applets, recursion, Java Servlets, JavaServer Pages, Java Beans, problem analysis and Java software solution design, coding and testing.

#### General Education Outcomes:

- Critical Thinking/Problem Solving Competency

#### Course Outcomes:

##### Applets, Java Servlets, and JavaServer Pages (JSPs)

Create Applets, Java Servlets, and JavaServer Pages (JSPs).

**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 problems and design, code and test Java software solutions at an intermediate 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

##### Java Classes, Inheritance and Polymorphism

Create Java classes using inheritance and polymorphism.

**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:

Returning Objects from Methods Aggregation Inheritance Polymorphism Exception Handling Advanced File Input/Output JList Component JComboBox Component Applets Recursion Java Servlets and JavaServer Pages Java Beans Problem Analysis Java Software Solution Design, Coding and Testing