Sinclair Community College
444 E. Third St.
Dayton, OH 45402

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

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

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 MethodsAggregationInheritancePolymorphismException HandlingAdvanced File Input/OutputJList ComponentJComboBox ComponentAppletsRecursionJava Servlets and JavaServer PagesJava BeansProblem AnalysisJava Software Solution Design, Coding and Testing