

Washtenaw Community College Comprehensive Report

CPS 251 Android Programming Using Java Effective Term: Winter 2016

Course Cover

Division: Business and Computer Technologies

Department: Computer Instruction

Discipline: Computer Science

Course Number: 251

Org Number: 13410

Full Course Title: Android Programming Using Java

Transcript Title: Android Programming Using Java

Is Consultation with other department(s) required: No

Publish in the Following: College Catalog , Time Schedule , Web Page

Reason for Submission: Course Change

Change Information:

Consultation with all departments affected by this course is required.

Course description

Pre-requisite, co-requisite, or enrollment restrictions

Outcomes/Assessment

Objectives/Evaluation

Rationale: Prerequisite change. CPS 161 was a very minimal preparation for CPS 251. If students do really well in CPS 161 we will let them take CPS 251. Otherwise we would like them to take CPS 261 before CPS 251.

Proposed Start Semester: Winter 2016

Course Description: In this course, students create programs written in Java to run on an Android smart phone or tablet. Students taking this class should have a very good knowledge of Java. Topics include Graphical User Interfaces, data storage, audio, databases, GPS and Google Maps.

Course Credit Hours

Variable hours: No

Credits: 4

Lecture Hours: Instructor: 60 Student: 60

Lab: Instructor: 0 Student: 0

Clinical: Instructor: 0 Student: 0

Total Contact Hours: Instructor: 60 Student: 60

Repeatable for Credit: NO

Grading Methods: Letter Grades

Audit

Are lectures, labs, or clinicals offered as separate sections?: NO (same sections)

College-Level Reading and Writing

College-level Reading & Writing

College-Level Math

Requisites

Prerequisite

CPS 161 minimum grade "A-"

or

Prerequisite

CPS 261 minimum grade "B-"

General Education

General Education Area 7 - Computer and Information Literacy

Assoc in Arts - Comp Lit
Assoc in Applied Sci - Comp Lit
Assoc in Science - Comp Lit

Request Course Transfer

Proposed For:

Student Learning Outcomes

1. Identify XML concepts used in defining the Android programming environment.

Assessment 1

Assessment Tool: multiple choice exam

Assessment Date: Winter 2016

Assessment Cycle: Every Three Years

Course section(s)/other population: All sections

Number students to be assessed: Random selection of all students up to a maximum of 100

How the assessment will be scored: Answer key

Standard of success to be used for this assessment: 70% of the students will score 70% or better on the assessment related questions.

Who will score and analyze the data: Departmental faculty

2. Identify Graphical User Interface (GUI) techniques used in the Android programming environment.

Assessment 1

Assessment Tool: multiple choice exam

Assessment Date: Winter 2016

Assessment Cycle: Every Three Years

Course section(s)/other population: All sections

Number students to be assessed: Random selection of all students up to a maximum of 100

How the assessment will be scored: Answer key

Standard of success to be used for this assessment: 70% of the students will score 70% or better on the assessment related questions.

Who will score and analyze the data: Departmental faculty

3. Identify the various ways that data can be retrieved and saved on an Android device.

Assessment 1

Assessment Tool: multiple choice exam

Assessment Date: Winter 2016

Assessment Cycle: Every Three Years

Course section(s)/other population: All sections

Number students to be assessed: Random selection of all students up to a maximum of 100

How the assessment will be scored: Answer key

Standard of success to be used for this assessment: 70% of the students will score 70% or better on the assessment related questions.

Who will score and analyze the data: Departmental faculty

4. Develop Java programs that run on android devices.

Assessment 1

Assessment Tool: Programming Exercise

Assessment Date: Fall 2016

Assessment Cycle: Every Three Years

Course section(s)/other population: All sections

Number students to be assessed: Random sample of 25% of all students with a minimum of one full section

How the assessment will be scored: Departmentally-developed rubric

Standard of success to be used for this assessment: 70% of the students will successfully complete the exercise

Who will score and analyze the data: Departmental faculty

Course Objectives

1. Demonstrate proficiency in the XML concepts used in defining the Android programming environment.

Matched Outcomes

1. Identify XML concepts used in defining the Android programming environment.
2. Recognize the difference between types of interfaces including but not limited to keyboard, itemized lists, text boxes and images.

Matched Outcomes

2. Identify Graphical User Interface (GUI) techniques used in the Android programming environment.
3. Recognize the different techniques used on Android to retrieve and store data.

Matched Outcomes

3. Identify the various ways that data can be retrieved and saved on an Android device.

New Resources for Course

Standard CIS/CPS labs will be sufficient for this course.

Course Textbooks/Resources

Textbooks

Manuals

Periodicals

Software

Equipment/Facilities

Computer workstations/lab

Reviewer

Action

Date

Faculty Preparer:

Clem. Hasselbach

Faculty Preparer

Feb 19, 2015

Department Chair/Area Director:

John Trame

Recommend Approval

Feb 20, 2015

Dean:

Kimberly Hurns

Recommend Approval

Feb 25, 2015

Vice President for Instruction:

Bill Abernethy

Approve

Apr 13, 2015