CMPS 393 Mobile Client Development

3.0 hours credit, online

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Textbooks:

1. Android App Development, 2018, Hervé J. Franceschi, published by Jones & Bartlett, ISBN: 978-1-284-09212-7.

Course Description:

A. This course introduces the concepts involved in mobile client development, discussions on why mobile, the components usually used in a mobile deployment, the general usage patterns for a mobile application. The Android Studio will be used as an app developing tool. Course content will cover: Android basics, model view controller and GUI component, GUI programming, data passing and processing, menu and SQLite, device orientation managing, touch and swipe, audio/video and game, fragment, GPS and location, making widget, and security.

B. Prerequisites: CMPS190 & CMPS191.

C. Elective for concentration on Mobile App.

Educational Objectives:

1. Successfully enter the competitive job market or pursue advanced study;

2. Capable of working collaboratively, and communicating effectively with team members, constituents, and the public.

Course Learning Outcomes:

Each student by the time of graduation will demonstrate:
1. An ability to analyze a complex computing problem and to apply principles of computing and other relevant disciplines to identify solution (ABET Outcome-1),
2. An ability to design, implement, and evaluate a computing-based solution to meet a given set of computing requirements in the context of the program's discipline (ABET Outcome-2),

3
4.
5.
6. An ability to apply computer science theory and software development fundamentals to produce computing-based solution (ABET Outcome-6).

Course Work Grading and Scale:

	Approx. weight in grade
Assignments, projects	20%
Midterm	35%
Final	35%
Attendance	10%

90%-100%	A
80%-89%	B
70%-79%	C
60%-69%	D
59% and less	F