Launch Date: June 17th

Link to Tutorial Outline: <https://drive.google.com/file/d/0BxbisLdZYFOLNmk1Y1FlZHRZR0U/view?usp=sharing> (contains URL for YouTube vids and Reference Links)

Complete Sample Code: <https://drive.google.com/file/d/0BxbisLdZYFOLY2Q1MVc4Zncxcm8/view?usp=sharing>

Objectives:

User-interaction design and requirements design

Graphical User Interfaces   
Location awareness, messaging, and other connections between the device and the outside world.

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| **Short Course Program** | |
| **Android Application Development (Class duration: 1hr)** | |
| **Wk 1**  **June 17** | **Introduction.** History. Purpose.  ▪Student complete Pre-Survey (1)  ▪Hand-out Tablets to Students  ▪Students create Google account and setup Gmail (2): <http://youtu.be/ZZW4g_Umjtg>  ▪Each Student emails [sislam3@fau.edu](mailto:sislam3@fau.edu) from newly created Gmail, Once all students have submitted their e-mail here proctor will e-mail to confirm this  ▪Watch Cityville Intro Video: <http://youtu.be/4kSPMs2_zb8>  ▪Introduce the App & Allow Students to use CityVille **(Register using Username: Gmail just created, Password: first 2 characters of Username)**  ▪New feature proposal for CityVille – Add a Profile (3)  ▪Watch Video 1 – *What is Processing, Using the Android Processing IDE App* (4): <https://youtu.be/NfNZThTHFsc>  ▪Watch Video 2 – *Creating Your Profile – Coordinate System and Shapes* (5): <http://youtu.be/NUn-BHl7-4c>  ▪Students use Week 1 Sample Code  Objective: Students self-assessment of STEM interest and programming skills. Introduce students to CityVille app, and the new feature proposal. Introduce students to Processing programming language and Integrated Development Environment (IDE), what it is and how to use it. Give students first opportunity to get hands-on experience using the Processing IDE on the Android tablet, they will become familiar with the coordinate system and drawing 2D shapes. |
| **Wk 2**  **June 24** | **Create Profiles** - Application Development The students learned: Basics of programming, how to programmatically set a color, understand RGB valued colors, how to programmatically create fonts and write text.  ▪Watch Video 3 - *Creating Your Profile – Color* (1): <http://youtu.be/kBnm6cozEms>  ▪Watch Video 4 - *Creating Your Profile –Text* (2): <https://youtu.be/i3Z7dS2zGPY>  ▪Students code into their profile their **Name** and **Why Are You Interested In STEM?** |
| **Wk 3**  **July 1** | **Template-Based Applications.** Learn by manipulating templates, students add and make changes to sample code provided for creating a profile using Processing.  ▪Watch Video 5 - *Creating Your Profile – Interactivity & Images* (1): <http://youtu.be/kDjUp62Vu8c>  ▪Watch Video 6 - *Profile Submission –Upload Processing Code*: <https://youtu.be/_Tk65lUVFkI>  ▪Students submit Processing code to Google Drive Folder: |
| **Wk 4**  **July 8** | **Explore profiles created by members of the class.** Profiles created using Processing are now integrated into CityVille and students get the opportunity to see their code at work in a real app.  ▪Explore student profiles integrated into CityVille  ▪Using Cityville with Social Networking |
| **Wk 5 July 15** | **Project Presentation.**  ▪Students present the profiles they coded  ▪Using Cityville with Social Networking  ▪Student Post-Survey |
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