Alabama Computer Science Summer Camps
(commuter and dorm-based options)

Overview of Summer Camps
– The University of Alabama Department of Computer Science will host a series of computer science camps in Summer 2014.
– Students will be taught multiple topics of computer science while learning to program a computer in several exciting contexts (robotics control and smartphone apps). The Computer Science Camps are taught in a manner that encourages self-exploration across multiple projects.
– The high school camps are offered to rising sophomores through seniors. All camps are taught by UA faculty in our computer science labs.
– Both commuter and dorm-based (high school only) options are provided. Those students from outside of the commuting range to Tuscaloosa may reside in our dorms throughout the week. Students from across Alabama and the USA are invited, as well as international students.
– The camps begin at 9am and end at 3:30pm each day of the week. Students will be given an hour lunch break with planned social events.
– Registration deadline: April 25, 2014 (seating restricted to 25 students; limited number of seats reserved for teachers interested in camps).

2014 High School Camp Topics
– Week 1 (July 21-25): Intro to Programming with Java
– Week 2 (July 28-Aug 1): Smartphone and Robotics Programming

Pre-requisites: Students should have basic computer usage skills, such as using a mouse in Windows Explorer; no previous programming experience required.

Tuition and Scholarships
– Commuting Students: $275 per week (includes lunch)
– Dorm Students: $500 per week (5 nights lodging, 3 meals/day)
– A limited amount of tuition assistance (merit-based and financial-need based) is provided by the following sponsors:

For More Information
– For more information regarding registration, please visit the camp website at:
  http://outreach.cs.ua.edu/camps
– For additional questions, please write to the camp organizer (Dr. Jeff Gray) at the following address:
  gray@cs.ua.edu
– To learn more about other events and opportunities that the UA CS Department sponsors, please visit:
  http://www.cs.ua.edu
Middle School Computer Science Camp: 
Game Programming and Robotics

Camp Content

– Students will learn topics of computer science in two exciting contexts: Game Programming and Robotics.
– Scratch is a programming language from MIT that is focused on providing an environment that is easy to use for first learners. It has been used in many different contexts to teach the fundamentals of computer science. The goal of Scratch is to offer the best possible first exposure to programming for students by providing a more intuitive environment for teaching computer programming.
– In addition to understanding how to program games in Scratch, the camp will also provide an opportunity for students to learn computer programming within the context of robotics. Students will work in paired teams to explore various project ideas in a very hands-on environment. Students will be able to showcase their individual projects to their families on the last day of camp.

Middle School Camp Details

– During this one-week camp, students will learn common programming constructs, basic algorithm design, and computer science fundamentals. Projects throughout the week will involve the creation of video games, animations, and robotics control programs.
– The middle school camp targets rising seventh through ninth graders.
– The camp will be held on August 4-8, 2014. This is a commuter camp – no dorm options available for middle school students (the dorm options are for the two weeks of high school camps).
– The camp begins at 9am and ends at 3:30pm each day of the week. Students will be given an hour lunch break (lunch is provided each day of the week).
– Prerequisites: Students should have basic computer usage skills, such as using a mouse in Windows Explorer.

Registration and Tuition

– The tuition for the one week middle school camp is $275 (including lunch each day). Limited scholarships are available.
– Registration deadline is April 25, 2014. Registration forms and additional information are available on the camp website at http://outreach.cs.ua.edu/camps
– For additional information, please send an email to gray@cs.ua.edu