

NorthWest Arkansas Community College  
Business & Computer Information Systems Division  
**Computer Information Department Course Outline**

## **PROG 2603 Android App Development (Fall)**

### ***Catalog Description***

The student will gain basic knowledge and skills in the development of applications (apps) for devices equipped with the Android operating system. Specific areas of emphasis will include the installation and configuration of the Android development tools, developing a proficiency in Java and XML, the Android Software Development Kit (SDK), design and development of simple apps, and testing apps with both the Android emulator and with Android hardware. The student will gain experience with the Android development tools, interaction with the user, presentation of multimedia content, and accessing websites. (Outside lab time will be required.)

### ***Prerequisites***

PROG 1003 Intro to Programming Logic

### ***Credit hours/Contact hours/Load hours***

3/3/3

### ***Target Audience/Transferability***

This course is for students seeking introductory training and hands-on experience in developing apps for mobile devices that use the Android operating system, and is applicable to students seeking self-improvement or an AAS Degree in Computer Information.

### ***Student Learning Outcomes***

The students completing this course will:

- Understand how to install and configure a current Android development system
- Gain basic proficiency in Java and XML
- Be able to design and develop basic native Android apps
- Be able to build effective user interfaces using event-driven programming techniques
- Be able to display multimedia content
- Be able to access websites
- Be able to access data from a mobile device's sensors
- Be able to test apps with the Android emulator and Android hardware

### ***Topics***

- Android development tools
- Java Language
- Android Development Kit (ADK)
- Android graphical user interface controls
- Accessing websites
- Accessing device sensors
- Testing Android apps with the Android emulator and Android hardware
- The process of submitting apps to the Google Play Store

## ***Forms of Assessment***

Chapter quizzes or programs

Programming projects

Formal writing project

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