Northwest Arkansas Community College
Business and Computer Information Systems Division

Discipline Code
PROG

Course Number
2603

Course Title
Mobile App Development

Catalog Description
(Fall) The student will gain basic knowledge and skills in the development of applications (apps) for mobile devices. Specific areas of emphasis will include the installation and configuration of current development tools, developing a proficiency using current mobile languages and frameworks, mobile SDKs, design and development of simple apps, and testing apps. The student will gain experience with cross-platform mobile development using current frameworks and development tools, interactions with the user, presentation of multimedia content, and accessing websites. (Outside lab time will be required). Prerequisites: PROG 1204 or PROG 1403.

Prerequisites
PROG 1204 **OR** PROG 1403

Credit Hours
3 credit hours

Contact hours
45 Lecture/Lab hours

Load hours
3 Load Hours

Semesters Offered
Fall

ACTS Equivalent
None

Grade Mode
A-F

Learning Outcomes

Students will:

- Demonstrate how to install and configure a mobile development IDE
- Interpret and use a current mobile programming language
- Design and develop basic apps
- Build effective user interfaces using event-driven programming techniques
- Operate mobile devices to display multimedia content
- Make use of external data and websites
- Show and experiment with data accessed from a mobile device's sensors
- Test apps

General Education Outcomes Supported

None

Standard Practices

Topics list

- Current mobile development tools
- Mobile Development Kits (SDK)
- Graphical user interface controls
- Accessing websites
- Accessing device sensors
- Testing / running apps
- The process of submitting apps to mobile store fronts.

Learning activities

- Assignments and Projects
- This course requires some in class, hands-on work and also additional hands-on work in a virtual or on-campus computer lab.

Assessments

- Homework
- Projects
- Quizzes
- Exams

Grading guidelines

- A = 90-100%
- B = 80-89%
- C = 70-79%
- D = 60-69%
- F = 0-59%

Last Revision Date: Spring 2022