

## TESD 1600 - Android App Programming (4 Credits)

### Course Description

Android apps are used constantly by mobile users throughout the world. Understanding how these apps work and are programmed is a highly sought-after skill in today's job market. Our Android App Programming course covers core concepts to help students create working Android apps. Building a reliable app that uses several Android App API's will give students the job ready skills they need.

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### Course Objectives

- Develop a user interface using different types of controls.
  - Explore user input, variables, and operations.
  - Use lists, arrays, and Web browsers in an Android app.
  - Include audio such as music in Android apps.
  - Create an Android app that requests, stores, and modifies data for multiple activities.
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### Course Outline

- Introduction to Android Studio
- Start building a Place Picker App
- Finish the Place Picker App
- Activity Embedding
- Layouts, Themes, and Animation
- Working with Accessibility
- Begin your own App
- Finish your own App

## Assignments and Assessments

Course Introduction and Standards  
Meet Your Instruction Team  
Rules of the Lab  
CS Code of Conduct Policy  
Remind App  
Submitting Assignments in Canvas  
Taking a Screenshot  
Writing Standards  
Orientation  
Syllabus Agreement  
Installing Android Studio  
Become familiar with Android Studio  
First Android App  
Checkpoint Meeting Module 1  
Student Acknowledgement Statement Module 1  
Starting the Place Picker App  
Checkpoint Meeting Module 2  
Student Acknowledgement Statement Module 2  
Finishing the Place Picker App  
Checkpoint Meeting Module 3  
Student Acknowledgement Statement Module 3  
Basic layouts  
Starting your own Android App  
Checkpoint Meeting Module 4  
Student Acknowledgement Statement Module 4  
Compose Essentials  
Layouts, Theming, and Animations  
Checkpoint Meeting Module 5  
Student Acknowledgement Statement Module 5  
Architecture and State  
Accessibility, testing, and performance  
Checkpoint Meeting Module 6  
Student Acknowledgement Statement Module 6  
Begin your own Android App  
Checkpoint Meeting Module 7  
Student Acknowledgement Statement Module 7  
Finish your Android App  
End of Course Survey  
Course Completion Checkpoint Meeting  
End of Course Student Acknowledgement Statement

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*Subject to change. Please consult your Canvas course for the most current instructions and updates.*

## Classroom Hours

Mo, Tu, W, Th  
8:00 AM - 11:00 AM  
12:00 PM - 3:00 PM  
4:00 PM - 7:00 PM

Friday  
8:00 AM - 11:00 AM  
12:00 PM - 3:00 PM

For a full list of course hours visit: [Course Schedule](#)

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## Instructor Contact Information

Jason Adams — jadams@stech.edu  
Dallin Savage — dsavage@stech.edu  
Elie Wamana — ewamana@stech.edu

Office Hours: By appointment

Email is the preferred method of communication; you will receive a response within 24 hours during regular business hours.

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## Canvas Information

Canvas is the where course content, grades, and communication will reside for this course.

- [stech.instructure.com](http://stech.instructure.com)
- For Canvas passwords or any other computer-related technical support contact Student Services.
- For regular Hours and Weekdays call (435) 586 - 2899.
- For after Hours & Weekends call (435) 865 - 3929 (Leave a message if no response).

# Course Policies

Course Grading: All assignments in this course require 100% score with unlimited submissions. All quizzes require a minimum score of 80%.

High School Power School Grades: Quarter student grades will be determined by student progress percentage. Faculty will use the higher percentage of either 1) quarter progress, or 2) cumulative progress for the current training plan year.

Grade Scale: The following grading scale will be used to determine a letter grade.

• A : 94 - 100%	• B : 83 - 86%	• C : 73 - 76%	• D : 63 - 66%
• A- : 90 - 93%	• B- : 80 - 82%	• C- : 70 - 72%	• D- : 60 - 62%
• B+ : 87 - 89%	• C+ : 77 - 79%	• D+ : 67 - 69%	• F : 0 - 59%

Course Policies: You are required to keep your progress and attendance at 67% minimum. You must complete this program within 150% estimated program length. You are permitted one 15 minute break every 90 minutes. If you take more than one break in a 90 minute period or your break lasts longer than 15 minutes, your attendance will be penalized. 10 consecutive absences will lead to being withdrawn from the program. Please notify your instructors about absences as soon as possible. If absence is due to illness, please email your instructors prior to end of day.

**Cell Phone/Electronics:** Cell phones cannot be used during class time. You may bring your personal computers to class. You must be on topic in the lab while clocked-in.

**Industry Environment:** Computer science typically is very sedentary. This means you may sit at a desk for long hours. Be sure to move and get what exercise you can.

**Iron County High School Students:** Your progress grade will be submitted every Friday to PowerSchool. You must maintain a progress percentage of 67% or over per quarter to stay in the course.

## Additional Information

InformaCast Statement: Southwest Tech uses InformaCast to ensure the safety and well-being of our students. In times of emergency, such as weather closures and delays, this app allows us to promptly deliver notifications directly to your mobile devices. To stay informed and receive real-time updates, we encourage all students to sign up for notifications. Your safety is our priority, and staying connected ensures a swift response to any unforeseen circumstances. More information and directions for signing up are available at: <https://stech.edu/emergency-notifications/>

Internet Acceptable Use Policy: The student is expected to review and follow the Southwest Technical College Internet Safety Policy at: <https://stech.edu/students/policies/>

Student Code of Conduct Policy: The student is expected to review and follow the Southwest Technical College Student Code of Conduct Policy at: <https://stech.edu/students/policies/>

Accommodations: Students with medical, psychological, learning, or other disabilities desiring accommodations or services under ADA, must contact the Student Services Office. Student Services determines eligibility for and authorizes the provision of these accommodations and services. Students must voluntarily disclose that they have a disability, request an accommodation, and provide documentation of their disability. Students with disabilities may apply for accommodations, based on an eligible disability, through the Student Services office located at 757 W. 800 S., Cedar City, UT 84720, and by phone at (435) 586-2899. No diagnostic services are currently available through Southwest Technical College.

Safety and Building Maintenance: The College has developed and follows a variety of plans to ensure the safe and effective operation of its facilities and programs. The following plans are available online:

1) Facilities Operations and Maintenance Plan; 2) Technical Infrastructure Plan; and 3) Health and Safety Plan.

Withdrawals and Refunds: Please refer to the Southwest Technical College Refund Policy at: <https://stech.edu/students/policies/>

Any high school or adult student, who declares a technical training objective is eligible for admission at Southwest Technical College (Southwest Tech). Program-specific admissions requirements may exist and will be listed on the Southwest Tech website. A high school diploma or equivalent is not required for admission but is mandatory for students seeking Title IV Federal Financial Aid.

Non-Discriminatory Policy: Southwest Technical College affirms its commitment to promote the goals of fairness and equity in all aspects of the educational enterprise, and bases its policies on the idea of global human dignity.

Southwest Tech is committed to a policy of nondiscrimination. No otherwise qualified person may be excluded from participation in or be subjected to discrimination in any course, program or activity because of race, age, color, religion, sex, pregnancy, national origin or disability. Southwest Technical College does not discriminate on the basis of sex in the education programs or activities that it operates, as required by Title IX and 34 CFR part 106. The requirement not to discriminate in education programs or activities extends to admission and employment. Inquiries about Title IX and its regulations to STECH may be referred to the Title IX Coordinator, to the Department of Education, and/or to the Office for Civil rights.

If you believe you have experienced discrimination or harassment on our campus, please contact the Title IX Coordinator, Cory Estes: [cestes@stech.edu](mailto:cestes@stech.edu), (435) 865-3938.

For special accommodations, please contact the ADA Coordinator, Cyndie Tracy: [ctracy@stech.edu](mailto:ctracy@stech.edu), (435) 865-3944.

Southwest Technical College

757 West 800 South

Cedar City, UT 84720

[info@stech.edu](mailto:info@stech.edu)

(435) 586-2899