JÖNKÖPING UNIVERSITY
School of Engineering

COURSE SYLLABUS

Android Development, 7.5 credits

Androidutveckling, 7.5 högskolepoäng

Course Code:	T1AEGX	Education Cycle:	First-cycle level
Confirmed:	Sep 01, 2025	Disciplinary domain:	Technology
Valid From:	Aug 31, 2026	Subject group:	Computer Technology
		Specialised in:	G1F First cycle, has less than 60 credits in first-cycle course/s as entry requirements
		Main field of study:	Computer Engineering

Intended Learning Outcomes (ILO)

On completion of the course the student shall:

Knowledge and understanding

- display an understanding for the consequences of the Android technical and economical ecosystems
- display an understanding for human interface guidelines for mobile devices

Skills and abilities

- demonstrate the ability to use the Android SDK and toolchain to develop high-quality Android apps
- demonstrate the ability to use sensor systems using Android APIs
- demonstrate the ability to use common APIs for Android
- demonstrate the ability to employ established methods to develop user interfaces for small screens with touch input
- demonstrate the ability to use Git effectively in a group project by choosing a suitable branching strategy

Judgement and approach

- demonstrate the ability to evaluate the Android app architecture
- demonstrate the ability to suggest and evaluate an effective Git-strategy

Content

The purpose of the course is to give an introduction to and experience of Android programming, from start to finished and published app.

The course includes the following topics:

- Android architecture
- Java
- The Android SDK
- Handling different runtime configurations
- GUI development for Android
- Sensors (gyroscope, GPS, camera)
- Network communication in Android
- Other key APIs
- Publishing on the Google Play Store

Type of instruction

Tuition will consist of lectures, lab work and project work.

Language of instruction is English.

Entry requirements

General entry requirements and taken courses in Object-oriented Software Development with Design Patterns, 7,5 credits and Linear Algebra, 6 credits or the equivalent.

Examination and grades

The course is graded 5, 4, 3 or U.

Registration of examination:

Name of the Test	Value	Grading
Project [1]	6 credits	5/4/3/U
Laboratory	1.5 credits	G/U

[1]Determines the final grade of the course, which is issued only when all course units have been passed.

Course literature

Please note that changes may be made to the reading list up until eight weeks before the start of the course.

Title: The Busy Coder's Guide to Android Development
Author: Mark L. Murphy
Publisher: CommonsWare, LLC
ISBN: 978-0-9816780-0-9