



# ID2216 Developing Mobile Applications 7.5 credits

Utveckling av mobila tillämpningar

This is a translation of the Swedish, legally binding, course syllabus.

## Establishment

Course syllabus for ID2216 valid from Spring 2009

## Grading scale

A, B, C, D, E, FX, F

## Education cycle

Second cycle

## Main field of study

Information Technology, Information and Communication Technology, Computer Science and Engineering

## Specific prerequisites

**För fristående studerande gäller följande behörighetskrav:**

- Grundläggande högskolebehörighet, dvs avslutad gymnasieutbildning inkl svenska och engelska el motsv och
- Kandidatexamen/180 hp (120 gamla poäng) i informationsteknik, informationssystem, datateknik eller data- och systemvetenskap.

## Language of instruction

The language of instruction is specified in the course offering information in the course catalogue.

## Intended learning outcomes

The course is an introductory course in technologies to create mobile applications and mobile services. The course gives theoretical knowledge and practical skills in the technology area for service development for mobile and handheld units.

## Course contents

The purpose of the course is to provide general knowledge of how to create applications for small and optimized mobile devices with support for runtime environments like Java Micro Edition and Flash Lite.

We will build and test applications for real handheld devices like mobile phones but our applications will run with no or small changes on more powerful devices like digital television sets, modern refrigerators, industrial computers and information-devices for cars.

The course also deals with technologies like XHTML-MP, WAP/WML and WAP to design the applications as “thin clients” meaning that the mobile-devices only act as user-interface for a server-based application.

The course tries to address two main difficulties in creating applications that will work on a wide variety of different real-world devices: (i) managing different properties between devices, particularly different display-properties like the screen-size and (ii) how to get paid for your application.

At the end of the course industry representatives will visit lectures and staff from the research-centre “Mobile Life” will talk about their research in mobile services.

## Disposition

Lectures, exercises, seminar

## Course literature

To be decided.

## Examination

- ANN1 - Assignment, 3.0 credits, grading scale: A, B, C, D, E, FX, F
- TEN1 - Examination, 4.5 credits, grading scale: A, B, C, D, E, FX, F

Based on recommendation from KTH's coordinator for disabilities, the examiner will decide how to adapt an examination for students with documented disability.

The examiner may apply another examination format when re-examining individual students.

If the course is discontinued, students may request to be examined during the following two academic years.

Final grade is based on the performance of the written exam and the practical assignments.

If the student is close to pass the exam (assessed by the examiner), the student gets the opportunity to pass the exam by doing a complement assignment. This assignment can only give the grade E, and not higher. The assignment must be sent in according to given deadline and can only be used to raise the grade to E on the current exam.

## Other requirements for final grade

The examination consists of a written examination and practical assignments. To pass the course it is necessary that both the written examination and the assignments are passed. Assignments should be done and presented when scheduled.

## Ethical approach

- All members of a group are responsible for the group's work.
- In any assessment, every student shall honestly disclose any help received and sources used.
- In an oral assessment, every student shall be able to present and answer questions about the entire assignment and solution.