



Proseminar / Seminar

Teaching iOS

Summer Semester 2019 - Info Meeting



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Goals


- Participate as tutor in the introduction courses for the iPraktikum (large-scale practical course)
- Learn how to teach Swift and concepts of advanced Software Engineering to students with varying knowledge
- Deepen your knowledge in iOS development
- Have fun :-)



A typical day in the intro course



Course Schedule

- Course duration: **April 09-18** (Homework due April 18)
- We hold different kinds of sessions
 - Instructors: 7 sessions about **Swift, Xcode and iOS development**
 - Tutors: 3 sessions about **advanced topics** 
- We keep the Rechnerhalle open 9:00-20:00 for people to complete their exercises
- Learn more about the course [here!](#)

Example Schedule (preliminary!!)

April 2019

W15	Mon 8	Tue 9	Wed 10	Thu 11	Fri 12	Mon 15	Tue 16
all-day							
08:00							
09:00		Getting Ready					
10:00		09:30 [S00] Introduction	09:30 [S03] Swift 2	09:30 [S05] Swift 3	09:30 [S07] Server-Side Swift	09:30 [S08] Tutor Session	09:30 [S10] Tutor Session
11:00							
12:00		[S00] (Voluntary)...					
13:00		12:30 [S01] Swift 1	12:30 [S04] App 2	12:30 [S06] App 3		12:30 [S09] Tutor Session	[S11] What Now?
14:00							
15:00							
16:00		15:00 [S02] App 1					
17:00							

Our Philosophy

“Tell me and I will forget.
Show me and I will remember.
Involve me and I will understand.
Step back and I will act.”
(Chinese Proverb)

Style of the sessions

90 min hands-on presentation

- Students immediately exercise the learned concepts in small in-session exercises (instructor walks them through the code)
- A solution is provided

Homework

- Summarizes the content of the whole presentation
- The students have to solve it on their own
- You correct the exercise solutions and give feedback to the students

What we expect during the course

- You help run the intro course
 - You attend all the sessions
 - You support the participants by answering their questions
 - You correct the exercise solutions of a group of “your” students
 - You take turns being present during lab times (9:00-20:00, excl. Sunday)
- You deliver your own session
 - You prepare an own extraordinary presentation & exercise
 - You present the topic in front of all students

Sessions

Instructor topics

- 3 Swift sessions
- 4 App sessions
 - Xcode app
 - Server-side Swift
- "What now?"

We teach the concepts needed in the following App session

Everyone works on the same application throughout the whole course

Possible topics for tutors

- UI Design
- Paradigms in Swift
- ... (your ideas)

You either work on the same app, or you design a Playground session

Prerequisites

- You are familiar with the concept of object-oriented languages
- You have experience in iOS development
 - Good knowledge in Swift
 - Experience with Objective-C is a plus
- You are highly motivated to take this course — no other obligations and flexibility during the full duration of the intro course (except repeat exams/obligatory university courses)

Milestones

- **Kickoff:** February 21, 2 - 4pm
- **Early March:** structure of your presentation
- **Early April:** presentation and exercise
- **April 03:** you do a dry run and get feedback
- **April 08:** final slides and exercise

How we grade

- Presentation (40%)
- Support (30%)
- Exercise correction (30%)

Registration process

1

Express your intention by filling out the form at <https://www1.in.tum.de/teachingios19>

Latest: **February 07 - 1:00pm**

2

We invite you to a personal interview latest one day after

Interviews: **February 12 (9:00-18:00)**

3

After we have accepted you, prioritize the Seminar/Proseminar “Teaching iOS” in the department’s matching system

Latest: **February 13**

Questions?

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