# Software Systems Engineering Introductory Meeting WS 2011/2012

Prof. Gerhard Lakemeyer, Ph.D.

Dipl.-Inform. Stefan Schiffer, Patrick Selders

RWTH Aachen University Knowledge-Based Systems Group (Lehr- und Forschungsgebiet Informatik 5)

October 6, 2011

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- Thesis
- Residence Permit
- Transfer of Credits

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# Master Programme Coordination

- Head: Prof. Gerhard Lakemeyer, Ph.D.
   Office hours: Thursday, 13h00 14h00
- Programme guidance:

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Dipl.-Inform. Stefan Schiffer (study advisor)
Patrick Selders (student assistant)
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- Office hours: by appointment
- Mail: sse@kbsg.rwth-aachen.de
- Internet
  - Website: http://dbis.rwth-aachen.de/SSE/
  - Mailinglist: please subscribe to mailing list sse2011 at

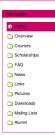
.../mailing-lists/sse20XX

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## http://dbis.rwth-aachen.de/SSE/







#### Contact

#### Stefan Schiffer

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How to find us

<u>Disclaimer</u> Webmaster

#### Master Programme Software Systems Engineering

Department of Computer Science at RWTH Aachen University can be found \$\mathbb{O}\$ here.

Overview Courses Scholarships FAQ News Links Pictures Downloads Mailing Lists Alumni

Master Programme Software Systems Engineering at RWTH Aachen University

#### Welcome page with recent news (if available)

Welcome to the web pages of the International Master Programme Software Systems Engineering offered by the Department of Computer Science at RWTH Aachen University.

This two year Master programme is primarily intended for international students holding a Bachelor degree in Computer Science or a closely related field from an internationally recognized university. The programme is offered in English. For more information on the programme and how to apply, please billow the links to the left. General information about the

#### News

The Introductory Meeting for new Software Systems Engineering students
will be held on Monday, October 11, 10:00 a.m.

Send this — Print this —









Orientation Days (Fachschaft) Oct 11, 2010

Upcoming events...

### Academic Advisor

- Your Advisor
  - faculty members of the CS department
  - assigned to each student by end of October
  - will advise you regarding the courses you should take
  - will possibly supervise your thesis
- Change of Advisors
  - you may decide to change your advisor
  - may depend on the specialization you choose
  - your new advisor has to agree
  - please contact sse@kbsg.rwth-aachen.de
  - there's no deadline for a change

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# Practical Things to Do ...

- Get a computer account
  - Rechnerbetrieb Informatik (RBI)
  - user administration office, room 4U16a, Basement, E1
  - http://www-rbi.informatik.rwth-aachen.de/
  - office hours:

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Mo: 9am - 12am, 1pm - 7 pm
Tu-Th: 9am - 12am, 1pm - 9 pm
Fr: 9am - 12am, 1pm - 6 pm
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- Send your current mail address to us (if it has changed since application)
- Subscribe to the mailing list sse2011!

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### New Structure in SSE – MPO2011

- There exist different versions of the master examination rules ("Prüfungsordnung")
- Starting from this winter term (WS 2011/2012)
   SSE programme (again) has a slightly new structure
- You are "MPO2011" (master exam. rules 2011) let people know which version is yours! especially ZPA, student service, and other administr.
- (old structures referred to as "MPO2005" & "MPO2010")

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# SSE: The Programme at a Glance

2 years	<b>12</b> – 35	0 – 35	0 – 35	0 – 35	<b>16</b> – 35	ECTS
1 <sup>st</sup> Sem.		on	at.	a)		30
and Came	le ns	cati	orm	ience	26	20
$2^{\mathrm{nd}}$ Sem.	heoretical oundations f SSE	Communication	Data&Informat Management	0,0	Software Engineering	30
3 <sup>rd</sup> Sem.	eore unda SSE	шш	:a& nag	ppliec omp.	twa jine	30
5 Seill.	The Fou of S	Cor	Dat Mai	Applied Comp.5	Software Engineer	30
4 <sup>th</sup> Sem.	Master's Thesis					30

Table: Structure of the SSE Programme (MPO'2011)

**Total** 

120

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# SSE: The Programme at a Glance

What is required?

(2 years = a total of 120 ECTS)

### Cover courses from five areas:

Theoretical Foundations of SSE
 12 – 35 ECTS

at least two courses from "Core Subjects":
 Model Checking, Theoretical Foundations of UML, Functional Programming,
 Logic Programming, Theoretical Foundations of Distributed Systems

Communication

0 - 35 ECTS

• Data & Information Management

0 - 35 ECTS

Applied Computer Science

0 – 35 ECTS

Software Engineering

16 – 35 ECTS

mandatory Lecture Software Project Management (4 ECTS)

further 12 CP from "Core Subjects":
 Model-based Software Engineering, Generative Software Engineering,
 Object Oriented Software Construction. Software Architectures.

Object Oriented Software Construction, Software Architectures, Safety and Reliability of Software-controlled Systems, Designing Interactive Systems, Information Management

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# SSE: The Programme at a Glance

• Courses	90 ECTS				
<ul> <li>Lectures in five areas</li> </ul>	68 ECTS				
• two Seminars $2 \times 4$	= 8 ECTS				
at least one has to be from Theo. Found. of SSE/Soft. Eng.					
<ul><li>one Lab Course</li></ul>	7 ECTS				
! Seminars and Lab must not be all from same area	a .				
<ul> <li>depth oral colloquium ("Schwerpunktkolloquium")</li> </ul>	3 ECTS				
on 2-3 connected courses (often from one area)					
ask examiner (professors) for possible combinations					
<ul> <li>German Language Course</li> </ul>	4 ECTS				
for german-speaking students: replaceable by					
additional lecture/seminar/lab/course (w/ grade!)					
<ul><li>Master's Thesis</li></ul>	30 ECTS				

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# Sample Schedule

Fall	Spring	Fall	Spring
5 courses  3×V3Ü2 [3×6ECTS]  + V2Ü1 [4ECTS]	3 courses  3×V3Ü2 [3×6ECTS]  Proj.Mgmt.	3 courses  3×V3Ü2 [3×6ECTS]  Lab Course	Master's Thesis
+ V3Ü1 [6ECTS]	v2ü1 [4ECTS]  Seminar 1  2h [4ECTS]	4h [7ECTS]  Seminar 2  2h [4ECTS]	Depth Oral Colloquium
			[3ECTS]
German-I 2h [2ECTS]	German-II 2h [2ECTS]		

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# Chairs/Teaching and Research Areas

Overview:

http://www.informatik.rwth-aachen.de/Lehreinheiten/index\_eng.php

- 12 Chairs
  - one "chair professor" each (head of department)
  - additional professors (teaching and research areas)
- Details on chairs:
  - Follow links on overview site
  - Switch the language, if necessary
  - Check the "teaching" and "research" links

### Courses Offered

- Filed in one of the five areas
- Information on Courses
  - CAMPUS (information system of RWTH)
     http://www.campus.rwth-aachen.de/rwth/all/groups.asp
     → Master of Science (M.Sc.)
    - → Software Systems Engineering (M.Sc.)
  - For German-speaking students:
    - $\bullet \ \, \mathsf{Diplomstudieng\ddot{a}nge} \to \mathsf{Informatik} \to \mathsf{Hauptstudium} \\$
    - Master of Science (M.Sc.)  $\rightarrow$  Informatik (M.Sc.)  $\rightarrow$  ...
  - Detailed descriptions also on the chairs' websites
  - Some courses in Electrical Engineering
- Introductory Presentation at beginning of each semester this year: 2011-10-07, 15:30h, Lecture Hall Fo1 (presentation of courses offered this semester)

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### RWTHAACHEN CAMPUS

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Hilfe 🚖 WS 2011/2010

Vorlesungsverzeichnis: WS 2011/2012

Studiengänge

Vorlesungen: WS 2011/2012 Organisations- und Lehreinheiten

Hörsäle

Prüfungsordnungen

Suchen

Login für Mitarbeiter CampusOffice für Studierende

Hardwareportal

Kooperationsdatenbank (DACOR)

Version 3.15.116

Modulhandbücher

Diplomstudiengänge (D)

Magisterstudiengänge (M.A.)

Staatsexamen Lehramtstudiengänge (GYM+GS,BK,SII)

Lehramtsbezogene Bachelorstudiengänge (GyGe)

Lehramtsbezogene Bachelorstudiengänge (BK)

Medizinische Studiengänge (St)

Bachelor of Arts (B.A.) Bachelor of Science (B.Sc.)

Master of Arts (M.A.)

Master of Science (M.Sc.)

Aufbau- (A), Ergänzungs- (E) und Zusatzstudiengänge (Z)

Prüfungen (Zentrales Prüfungsamt)

Sprachenzentrum

Interdisziplinäres Lehrangebot

Studierende unterrichten Studierende

Lehrerfortbildungsverzeichnis

Schülervorlesungsverzeichnis Seniorenstudium

CAMPUS-Studiengang

**CAS Campus** 

RWTH 2

Do. 15.09.2011

Impressum Disclaimer

Aktuelles:

CAMPUS Schulungstermine finden Sie im Veranstaltungsverzeichnis des Rechen- und Kommunikationszentrum der RWTH Aachen.

Wintersemester 2011/2012 Das WS 2011/12 ist seit 27.06.2011 offiziell freigeschaltet.





### **RWTHAACHEN CAMPUS**



Übersicht des Studienfaches Master of Science (M.Sc.)/Software Systems Engineering (M.Sc.)

#### Studiengänge

Organisations- und Lehreinheiten Hörsäle

Prüfungsordnungen

Suchen

Login für Mitarbeiter CampusOffice für Studierende

Hardwareportal Kooperationsdaten-

bank (DACOR) Modulhandbücher

Version 3.15.116

**CAS Campus** RWTH

Do. 15.09.2011 Impressum Disclaimer in technical and socio-technical systems. It is these latter aspects that distinguish this programme from other master programmes in Computer Science. This two year Master programme is primarily intended for international students holding a Bachelor degree in Computer Science or a closely related field.

Link: http://dbis.rwth-aachen.de/SSE/

F-Mail: msc-pqm@informatik.rwth-aachen.de



5 areas (disregard those entries with other MPO-version prefix)

Übersicht Master of Science (M.Sc.)

#### Aktuelles:

The Master Programme in Software Systems Engineering focuses on the design and implementation of complex software systems, including their embedding

 CAMPUS Schulungstermine finden Sie im Veranstaltungsverzeichnis des Rechen- und Kommunikationszentrum der RWTH Aachen. Wintersemester 2011/2012 Das WS 2011/12 ist seit 27.06.2011 offiziell freigeschaltet.

### Seminars & Lab Courses

- Central allocation procedure w/in Computer Science faculty https://www.graphics.rwth-aachen.de/apse
- takes place at end of preceeding semester
  - in January for summer term
  - in June for winter term
- register and choose which seminar(s)/lab you want slots are being alloted thereupon
- E-Mail with instructions will be send
- http://web-info8.informatik.rwth-aachen.de/stube/Ankuendigung\_zentrale\_Anmeldung.pdf

### Information about Exams

#### For all courses

- exam at the end of the course
- either oral (30 min) or written (60 90 min)
- admission to exams may have prerequisites (e.g., 50 % of homework assignments)

### Registration for exams needed

- you have to register for each exam via CAMPUS
  - register for "exam"-event corresp. to each course
  - usually either two dates (if written) [de: Klausur] or individual dates (if oral) [de: mündl. Prüfung]
- registration deadline:

summer: next to last Friday in May winter: next to last Friday in November

# Automatic (Re-)Registration for Exams

- Automatic Registration for exams
  - Once you registered for an exam, if you fail you will automatically be re-registered
  - If you fail an exam 3 times you fail the whole programme!
- Switching modules / Dropping a module
  - But you can change modules

     i.e. drop a module and pick another
     (except for mandatory courses)
  - If you failed an exam twice you should de-register it (come see me to do so) and switch to another module

### Modulare Anmeldeverfahren

- MPO'2011" requires registration via so-called "modulare Anmeldeverfahren"
- This is done via CAMPUS Office

### Sommersemester

- + registration is only possible until the week before the last full week in May!
  - de-registration is only possible until the last full week in May!

### Wintersemester

- + registration is only possible until the week before the last full week in November!
  - de-registration is only possible until

Oct. 6, 2011 the last full week in November!

### **CAMPUS-Office**

- web-based study organizer
  - https://www.campus.rwth-aachen.de/office
  - login with your matriculation number and password
- features
  - browse courses in CAMPUS
  - timetable of your courses
  - list of registered exams
  - results of exams taken so far
  - online-access to central examination office
  - online-access to student secretary

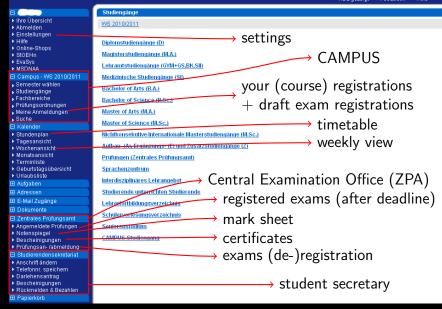
...

### CAMPUS Office



# **RWTHAACHEN**

Kurz gezeigt → Feedback → Hilfe



# Central Examination Office (ZPA)

- Location
  - in the Super C building (Templergraben 57)
  - registration officers in room 2.25
  - Ms. Cüpper, Ms. Kutsch
     Mo,Di,Do,Fr: 10.00 12.30; Mi: 13.00 16.00
- Things to do when going to ZPA
  - present your student ID
  - tell the name of the Master Programme (i.e. Software Systems Engineering) and version of master examination rules (MPO'2011)

explain what your request is about

### Master's Thesis

- Usually during the final six months of the programme
- Try to find a topic a bit earlier (orientation phase)
- Before:
  - Topic is usually chosen from an area you want to put emphasize in (i.e., you are very interested in)
  - Registration is necessary
  - Prerequisites: successful completion of 60 ECTS
- After:
  - Thesis will be graded by your first supervisor and another faculty member (second supervisor)
  - You have to present and defend your thesis within an oral (makes up 3 ECTS from the total 30 ECTS)

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# Prolongation of residence permit

- If you cannot finalize programme in time, it is possible to prolongate your residence permit
- Procedure:
  - get your intermediate transcripts at the central examination office
  - get a certificate at the international office and a "Studienverlaufsbescheinigung" at my office
  - take certificates to aliens department of local authorities
- Further information:
  - Ulrike Brands
  - ulrike.brands@zhv.rwth-aachen.de

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### Transfer of Credits

- "Transfer of Credits" to speed up your studies
- What can be transferred:
  - credits from your bachelor and master programmes so far
  - programmes should have taken equal or more than four years
  - courses should be similar to courses in the SSE programme
  - will be filed according to SSE-Programme structure
  - maximum: 30 credits
  - grades of transferred courses have to be better than German 3.0
- Deadline: end of November (we will send detailed instructions)
- We need.
  - letter containing which courses you want to be transferred (incl. your name, email, immatriculation #, prioritization)
  - copy of the transcripts of your previous studies
  - (official) description of grading scheme

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# Software Systems Engineering

Questions?

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# Additional Notes / Answers to Questions

- In WS 2011 the "Information Management" course is given in CAMPUS as "Implementation of Databases"
- In CAMPUS, for the lists given for the Core Subjects for the areas Theoretical Foundations of SSE and Software Engineering, look for "Veranstaltungen" (and do not pay too much attention to "Module". The former is the list of courses offered this semester, the latter is the list of all modules that are generally considered as Core Subjects in that area.)
- If you have questions on a particular course/lecture, don't hesitate to ask with the lecturer or better yet a corresponding research assistant.

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