



Universität Stuttgart



Stefanie Anstein
student advisor

WELCOME
to the program
Master of Science
Computer Science

March 2025

Overview

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Who is who?

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General responsibilities

- **Dean of the study programs: Prof. Dr. Andrés Bruhn**
Responsible for the organization of all study programs of the department
<https://www.vis.uni-stuttgart.de/en/institute/team/Bruhn-00001>



- **Head of the examination board of the program M.Sc. Computer Science: Dr. Christoph Stach**
Responsible for deadline extensions, registration withdrawals, etc.
<https://www.ipvs.uni-stuttgart.de/de/institut/team/Stach>



In case of any organizational questions ...

- **Dr. Stefanie Anstein:**

Student Advisor / Co-program manager

Pfaffenwaldring 5b, office 1.006

<https://www.ims.uni-stuttgart.de/institut/team/Anstein-00002/stefanie.anstein@ims.uni-stuttgart.de>



- **Dr. Katrin Schneider:**

Program manager

Universitätsstr. 38, office 1.416

www.f05.uni-stuttgart.de/fakultaet/personen/Schneider-00001/katrin.schneider@informatik.uni-stuttgart.de



In case of any general questions ...

International Service Point Faculty 5

Complementary to the services of the university's International Office:

- Support and contact point for the faculty's international students
- Promoting further internationalization at Faculty 5
- Events & networking activities for and with international students

Stay informed!

- [ISP Website](#)
- [Monthly mailing - Faculty 5](#)
- Follow [Meta](#) & [Laura](#) on LinkedIn



Meta Geisbüsch, LL.M. & Laura Busch, M.A.

International Service Point (ISP) | Faculty 5
University of Stuttgart
Pfaffenwaldring 47 | Room 4.270
internationalstudents@f05.uni-stuttgart.de

Upcoming events for international students of Faculty 5



Semester Opening Faculty 5 | May 15

Working in Germany – Online Session (Career Service) | May 21

C³ career-contact-connect – International Career Day | June 4

International Days at Faculty 5 | Nov 25-Dec 10

Welcome Days at the university's **International Office (IZ)**: April 2, 11:00 am-3:00 pm CEST



Our monthly mailing!

Stay up to date on **important information and events for international students of our faculty!**

Sign up!



Your academic advisor

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An academic advisor ...

- can support you in planning your individual curriculum
- can help you to decide about useful combinations of modules from a great variety of modules to be chosen from
- can be assigned according to your chosen major

Please contact Stefanie (stefanie.anstein@ims.uni-stuttgart.de) if you're interested.

In general, you're expected to take full responsibility and be pro-active!

Please also be aware that German authorities don't make exceptions – we expect everyone to accept that “no” means “no”.

General plan of the program

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Study plan suggestion (flexible; you decide about the order of modules)

M.Sc. Computer Science (English), University of Stuttgart

Majors („Studienprofile“): Autonomous Systems / Service Technology and Engineering / Visual Computing

study plan suggestion (flexible)

Semester	Compulsory modules	Catalog Core* [24CP]	Catalog Extended* [12CP]	Catalog Breadth* [12CP]	Catalog Elective* [30CP]	total ECTS credit points**
1	Theoretical and Methodological Foundations of <major>*** [6CP]	Core modules worth 12CP	Extended modules worth 6CP	Breadth modules worth 6CP		30
2	Advanced Seminar Computer Science**** [3CP]	Core modules worth 6CP	Extended modules worth 6CP	Breadth modules worth 6CP	Elective modules worth 6CP	30
	Key Qualification („SQ“)**** [3CP]					
3		Core modules worth 6CP			Elective modules worth 24CP	30
4	Master's thesis [30CP]					30

*) The modules offered in the catalogs can be found in [C@MPUS](#).

**) 6CP are typically gained by 3V(lecture)+1Ü(exercise) = 4SWS/SH = 3h/week.

**) Either offered in winter or summer term.

****) To be taken in the second semester at the earliest.

Compulsory subjects

- Theoretical & Methodological Foundations of <your major> (6 CP; either offered in winter or summer term; filled with a course with a different name)
- Advanced Seminar Computer Science (3 CP; 2nd semester earliest):
 - seminar to get acquainted with research methodologies and scientific work
- Key qualification (3 CP; 2nd semester earliest):
 - obligatory for all students, free choice from large offer – registration necessary (previous to the start of the semester)

Catalog modules

- specific contents for each major – rules:
 - 24 CP from CORE
 - 12 CP from EXTENDED
 - 12 CP from BREADTH
 - 30 CP ELECTIVES
 - modules from bachelor programs can be used to a maximum of 6 CP for Extended, 6 CP for Breadth and 6 CP for Elective (in total at most 18 CP) – only if confirmed by the examination board
 - examination board can decide to include further modules in the catalogues, please send a request via S. Anstein

Master thesis

- you can register your thesis once you've gained 60 CP
- duration: 6 months

Example study plan for the major AUT

MSc Computer Science (English)

Example study plan for Major Autonomous Systems in Computer Science started in a summer term

Term	Compulsory	Breadth	Core	Core	Extended	ECTS
1		Advanced Information Management OR Data Engineering 6	Reinforcement Learning 6 Knowledge Graphs 6	Machine Learning 6	Mobile Computing OR Robust System Design 6	30
2	Theoretical and Methodological Foundations of Autonomous Systems 6 Advanced Seminar 3 Key Qualifications (SQ) 3	Information Integration OR Data Warehousing, Data Mining, and OLAP 6	Probabilistic Machine Learning 6		Embedded Systems Engineering OR Design for Reliability in Advanced Technology 6	30
3	Lab Course Artificial Intelligence OR Practical Course Information Systems 6	Virtual and Augmented Reality OR Scientific Visualization 6	Deep Learning OR Detection and Pattern Recognition 6	Analyzing Software using Deep Learning OR High-dimensional data approximation and learning 6	Software Engineering for AI-Based Systems OR System and Web Security 6	30
4	Master Thesis					30

Legend

6 ECTS typically are 3 lecture hours + 1 exercise hour per week. 3 ECTS typically are 2 lecture hours or 2 seminar hours per week

Example study plan for the major STE

MSc Computer Science (English)

Example study plan for Major Service Technology and Engineering started in a summer term

Term	Compulsory	Breadth	Core	Core	Extended	ECTS
1		Machine Learning OR Reinforcement Learning	Data Engineering	Advanced Information Management	IT Service Management OR High-dimensional data approximation and learning	30
2	Theoretical and Methodological Foundations of Service Technology and Engineering	Embedded Systems Engineering OR Real-time Concepts for Embedded Systems	Information Integration	Data Warehousing, Data Mining, and OLAP	Business Process Management OR Service Management and Cloud Computing, and Evaluation	30
	Advanced Seminar					
	Key Qualifications (SQ)					
3	Practical Course Visual Computing OR Laboratory Course Artificial Intelligence	Mobile Computing OR Analyzing Software using Deep Learning	Knowledge Graphs OR Machine Perception and Learning	Security and Privacy OR System- and Web Security	High Performance Computing OR software Engineering for AI-based Systems	30
4	Master Thesis					30

Legend

6 ECTS typically are 3 lecture hours + 1 exercise hour per week. 3 ECTS typically are 2 lecture hours or 2 seminar hours per week

Example study plan for the major VC

MSc Computer Science (English)

Example study plan for Major Visual Computing started in a summer term

Term	Compulsory	Breadth	Core	Core	Extended	ECTS
1		Knowledge Graphs OR System and Web Security	Scientific Visualization	Virtual and Augmented Reality	Correspondence Problems in Computer Vision OR Machine Perception and Learning	30
2	Theoretical and Methodological Foundations of Visual Computing	Simulation Software Engineering OR Distributed Systems I	Computer Vision	Information Visualization and Visual Analytics	Practical Course Visual Computing OR Practical Course Information Visualization	30
	Advanced Seminar					
	Key Qualifications (SQ)					
3	Laboratory Course Artificial Intelligence OR High Performance Computing	Security and Privacy OR High-dimensional data approximation and learning	Mobile Computing OR IT Service Management	Detection and Pattern Recognition OR Deep Learning	Analyzing Software using Deep Learning OR Software Engineering for AI-based Systems	30
4	Master Thesis					30

Legend

6 ECTS typically are 3 lecture hours + 1 exercise hour per week. 3 ECTS typically are 2 lecture hours or 2 seminar hours per week

Exam regulations & exam/module registra- tion

Exam regulations

- binding version in German & indicative version in English:
www.student.uni-stuttgart.de/en/study-programs/Computer-Science-M.Sc-00002./?page=examinations
- lists all obligatory modules & describes restrictions for the catalog modules, states (repetition) rules, deadlines etc.
- info on extensions and exceptions etc. (for academic accommodations due to special circumstances see also www.student.uni-stuttgart.de/en/organizing-studies/disability)
- most important rules (see also handout):
 - 4 semesters = regular duration
 - max. 9 semesters (independent of visa)
 - 4 SWS/SH/SSSt = “Semesterwochenstunden” = 3h per week (2x90min) = 6 ECTS credit points
 - 1 ECTS credit point = 30h student’s time (workload and weighting for average)

Exam regulations – regarding examinations

- exams can be written or oral: PL (written/oral exam), BSL (graded course achievement), USL (ungraded course achievement); see module handbook
- graded exam:
1,0 (excellent) / 1,3 / 1,7 ...– 4,0 (acceptable)
- hint: there might be some preconditions to fulfill in order to be allowed to take part in an exam, e.g. homework etc.
- you have to register for exams in C@MPUS
- you can de-register from an exam until 7 days before it takes place – later de-registration is only possible if you hand in a doctor's certificate (examination board will decide about its acceptance)
- you cannot de-register from exam repetitions

Exam regulations – regarding exam repetitions

- you can only repeat exams you have failed
- one repetition is allowed for each failed exam – no influence on the grade
- 2nd repetition is allowed only 3 times during the whole program (contact us if you're in that situation)
- repetitions have to be carried out at the next possible date of the exam (in general after the following semester) & you have to register for them

Exam registration

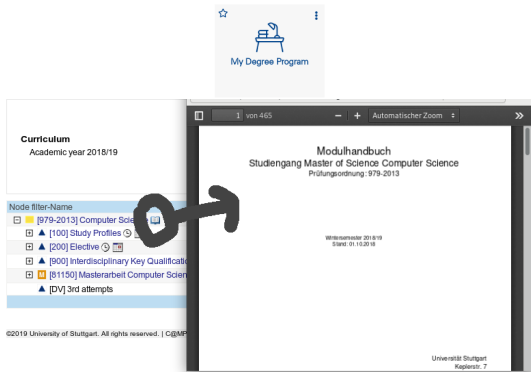
- one online registration period for binding exam registration in each semester via the C@MPUS system
- you are not allowed to attend exams without having registered during this period
- dates: `www.student.uni-stuttgart.de/en/exams/deadlines`
- hints:
 - sometimes de-registration is not possible via C@MPUS ⇒ contact examination board (e.g. oral exams)
 - to be sure, take a screenshot of your (de-)registrations

Module handbook

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The module handbook ...

- is a collection of all modules that belong to a program
- each module description includes an overview over contents/aims, name of the person responsible & the lecturer, CP, literature, exam ...
- can be found in the C@MPUS system:



Platforms: C@mpus and ILIAS

C@mpus is the online platform for ...

- finding the currently offered courses and their modules
 - creating a personal schedule (via **non-binding** registration for **courses**)
 - downloading certificates
 - registering exams (via **binding** registration for **modules**) and de-registering
 - getting an overview of your personal examination results (gained credit points; transcript)
-
- <http://campus.uni-stuttgart.de>
 - login (st1234567@stud-uni...) & password

ILIAS is the online platform for ...

- finding slides & further seminar/exercise information (you get linked to the courses via C@mpus; in some cases, registration is required)
- uploading exercise solutions etc.
- <https://ilias3.uni-stuttgart.de>
- login (st account) & password

The screenshot displays the ILIAS web interface. At the top, a dark header bar contains the text "Universität Stuttgart - Lehre & Lernen online". Below this is the University of Stuttgart logo. A breadcrumb trail reads "Repository » Engineering » Computer Science » Lehrveranstaltungen Sommersemester 2019". The main heading is "Lehrveranstaltungen Sommersemester 2019" with a folder icon. Below the heading are tabs for "Content" and "Info". A green notice box states: "Hinweis: Sowohl das Anlegen von jeglichen semester-/lehrveranstaltungsbezogenen ILIAS-Kursen als auch das Übertragen von Kursen geschieht ab dem WS 17/18 nur noch über C@MPUS. Die ILIAS-Kurse werden direkt in ILIAS in dieser Kategorie grundsätzlich keine Kurse mehr angelegt." Below this is a "COURSES" section. It lists three courses, each with an IPUS icon: 1. "Advanced Information Management" by PD Dr. Holger Schwarz, with registration information and a note to log in. 2. "Advanced Software Engineering: Non-Functional Aspects In Software Engineering" with similar registration and login information. 3. "Advanced Topics In Data Management" by Prof. Dr. Bernhard Mitschang and PD Dr. Holger Schwarz, also with registration and login information.

Universität Stuttgart - Lehre & Lernen online

Universität Stuttgart

Repository » Engineering » Computer Science » Lehrveranstaltungen Sommersemester 2019

Lehrveranstaltungen Sommersemester 2019

Content Info

Hinweis: Sowohl das Anlegen von jeglichen semester-/lehrveranstaltungsbezogenen ILIAS-Kursen als auch das Übertragen von Kursen geschieht ab dem WS 17/18 nur noch über C@MPUS. Die ILIAS-Kurse werden direkt in ILIAS in dieser Kategorie grundsätzlich keine Kurse mehr angelegt.

COURSES

Advanced Information Management
PD Dr. Holger Schwarz, Lecture and exercises, summer term 2019
Registration: No Registration Possible
Availability: 28. Mar 2019, 10:55 - 30. Sep 2020, 23:55
To access this item you need to be logged in and to have appropriate permissions.

Advanced Software Engineering: Non-Functional Aspects In Software Engineering
Registration: No Registration Possible
To access this item you need to be logged in and to have appropriate permissions.

Advanced Topics In Data Management
Prof. Dr. Bernhard Mitschang, PD Dr. Holger Schwarz, Advanced Seminar, Summer term 2019
Registration: No Registration Possible
Availability: 24. Feb 2019, 13:00 - 30. Mar 2020, 13:00
To access this item you need to be logged in and to have appropriate permissions.

Your schedule

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List of currently offered courses

... can be extracted from C@MPUS directly:

- “My Degree Program” shows the curriculum tree view
- Click on calendar icon for overlaps
- Register for courses (non-binding)
- Find personal schedule in “Calendar”

Finding your courses via C@MPUS:

University of Stuttgart Germany C@MPUS Home

Favourites

Calendar (3.) My Examination Dates My Achievements My Degree Programme (1.) My Courses C@MPUS Documentation

[979-2013] Computer Science Yes 120

[100] Study Profiles Yes

[110] Visual Computing (schedule) Yes

[111] Compulsory Yes

[46760] Theoretical and Methodological Foundations of Visual Computing Yes 6

[46761] Theoretical and Methodological Foundations of Visual Computing Yes 1.

[46762] Vorleistung Yes 1.

[467601] Vorlesung Theoretische und Methodische Grundlagen des Visual Computing Yes 1.

Lectures in academic year 2019/20	Part (Assistant)	Status	Place (1st session)	Time (1st session)
020961000 19W 3SH L Theoretical and Methodological Foundations of Visual Computing	Weiskopf	BF	Universität 38 - V 38.02 (UN38/EG/V	14.10.19 11:30 - 13:00

Stefanie Anstein: intro M.Sc. CS

Further hints

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Some further hints ...

- Forward your student mail to your private account if you don't read it directly! We strongly **rely on you reading all our emails** (from different sources and of different relevance, but please keep track!)
- If you're on the waiting list for a dorm, make sure that you confirm regularly at the „Studierendenwerk“ that you're still searching for a room!
- Some institutes offer block courses (e.g. IAAS); please check the institutes' websites & COMPUS.
- Please be aware that exams may take place during the lecture-free period.

Some more further hints ...

- Open learning space for maths and computer science questions: www.mint.uni-stuttgart.de/angebote/offener-lernraum
- “Makerspace” on campus Vaihingen for conducting individual projects: <https://uni-stuttgart.de/maked-digital>
- German language course advisable (e. g. via “Language Center” in C@MPUS)
- further institutions to get information & help:
 - Examination Office & Admissions Office
 - Pfaffenwaldring 5c
 - International Office (*Internationales Zentrum*)
 - welcome service – get your welcome package!
 - international mentoring, learning groups, psycho-social counselling, student associations, leisure activities, help with German forms, career service etc.
 - Pfaffenwaldring 60

Even more further hints ...

further institutions to get information & help:

- Student Services (*Studierendenwerk*)
 - housing, childcare, legal advice, social advice, psychological support, finances, disabilities, ...
 - <https://www.studierendenwerk-stuttgart.de/en>
- Student representatives CS
<https://fius.informatik.uni-stuttgart.de/index.php/en/startpage/>
 - support among students (e.g. old exams, social life etc.)
- “Ombudsperson”: a neutral and confidential contact person for people in need of support in university conflicts:
www.student.uni-stuttgart.de/en/counseling/ombudsperson
- Student Counseling Center (*Zentrale Studienberatung*)
 - general and specific questions, e.g. disabilities, chronic illness
 - contact point for all unclear issues
 - courses on studying efficiently etc., see <https://www.student.uni-stuttgart.de/en/counseling/zsb/learning-counseling/>
 - Pfaffenwaldring 5c



Universität Stuttgart
Zentrale Studienberatung(ZSB)

Learning Counseling in the Student Counseling Center

Tips and advice for successful learning

- Learning skills newsletter in the winter semester
- Counseling for individual students and learning groups
- Workshops:
 - *Learning methods and exam preparation*
 - *Learning regularly, avoiding procrastination*



Contact for appointment & newsletter subscription:
lernberatung@uni-stuttgart.de

Even more further hints ...

further institutions beyond the university to get information & help:

- Welcome Center Stuttgart
(<https://welcome.stuttgart.de/welcomecenter/en/>)
 - help in many areas for new students: Welcome Club, Job Centre etc.
- German job centre 'Agentur für Arbeit':
<https://www.arbeitsagentur.de/en/welcome> (student job board etc.)
- Nightline Tübingen: an anonymous, confidential, unprejudiced and independent evening hotline (also available in English):
<https://nightline-tuebingen.de/>

Some dates to save ...

- online seminars by the IZ:
<https://www.student.uni-stuttgart.de/en/startingout/international/orientation-days>
- binding module exam registration period: May 13 - June 03, 2025;
lecture breaks and public holidays (shops etc. closed!): see
<https://www.uni-stuttgart.de/en/study/application/academic-calendar>

In case of any questions ...

... please ask:

- **Stefanie Anstein**

co-program manager, student advisor &

contact person examination committee

(office: 01.006 in Pfaffenwaldring 5b)

stefanie.anstein@ims.uni-stuttgart.de

If in doubt, please ask – the sooner the better! :)

(... and please use cc instead of single e-mails

if you contact several persons about the same issue, thanks.)

By the way, we're always grateful for feedback about

how we could improve our services (websites, advising etc.)!

- (for more general issues):

Meta and Laura at the International Service Point of faculty 5

www.f05.uni-stuttgart.de/studium/international-service-point/

- (for student-related issues):

CS student representatives

<https://fius.de/index.php/en/startpage/>

WELCOME again ...

... at the University of Stuttgart!

Time for questions!