Master Welcome

Monday, 07.10.2019
Welcome at the Department of Chemistry
Winter-Term 2019
Class 18
Who is responsible for the organisation?

Prof. Dr. Axel Griesbeck
(Organic Chemistry)
Chairman M.Sc.
Examination Board

Prof. Dr. Mathias Wickleder
(Inorganic Chemistry)
Vice-Chairman M.Sc.
Examination Board

Dr. Heike Henneken
(Physics)
Study Coordinator, Student Advisory Service

Examination Office
Marion Danitz
Program Language = English only!

But:

*It is always good to learn some German for ordering beer,*

*Talking to administrative people ...*
Train your English!

active:

writing (reports...)
written exams

speaking (presentations...)
oral exams

passive:

reading (journals...)

listening (lectures...)

Also not your professors in teaching in English!

Expectations on the Master program

- Bachelor program with some more demand?
- Route to scientific individualization?

Establishing high level education and specialization

Bild: https://theimpactnews.com/items-we-barely-use/retired-columnists/kiki-facts/2016/11/03/5-rules-for-success/
High level education

3 A-Lecture modules
combined with
3 E-lab course modules

Specialization
2 project modules (P)

1 project module with combined research proposal (P&RP)

1 supplementary module (S)

Master-Thesis (M)
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### Recommended study plan – 1. Semester

<table>
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<tr>
<th>Semester</th>
<th>Module</th>
<th>Lecture + Seminar (hours per week)</th>
<th>Lab course (weeks)</th>
<th>Credits</th>
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**Not possible for the Biochemistry A-module!**
**BC A&E is not in the 1st semester...**
## Recommended study plan – 2. Semester

<table>
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<tr>
<th>Semester</th>
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Total Credits: 36
# Recommended study plan – 3./4. Semester

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<th>Lab course (weeks)</th>
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Project modules

A: Chemical Project modules
P-AC  Inorganic Chemistry
P-OC  Organic Chemistry
P-PC  Physical Chemistry
P-ThC  Theoretical Chemistry (Quantum Chemistry)
P-BC  Biochemistry (Biological Chemistry)
P-TeC  Technical Chemistry
P-NC  Nuclearchemistry
P-MC  Macromolecular Chemistry

B: Non-chemical Project modules
P-Phy  Physics
P-Cry  Cristallography
P-Min  Mineralogy
P-Gen  Genetics
P-Inf  Computer Sciences
P-Pha  Pharmacology und Toxicology
P-PhC  Physiological Chemistry

You can choose max. one non-chemical project module!
Project module with research proposal (P-RP)

The research proposal is part of the P-RP module and its successful transcription and presentation is documented by the signature of the examiner before the start of the oral exam.

Students who successfully completed this module, are able to ...

• prepare a research proposal for a specific scientific problem,
• perform an in-depth critical literature search and document it,
• perform an evaluation of current methods and technologies, a description of possible solutions to the problem together with a literature description and a time schedule for realization of the proposed research.
The S-module (= Supplementary module)

You have a wide choice of opportunities:

• one full A-Module (lecture, seminar, exam), or
• one A-lecture & and P-lecture with exam (A or P), or
• up to 3 P-module lectures (1-2 SWS), or
• external experimental projects (with exam), or,
• internal experimental projects (with exam), or
• other stuff that is accepted...

MORE DETAILS:
http://www.chemie.uni-koeln.de/docs.html?&L=1

Your mentor becomes very important !!!!!!
Mentor program

Each student is assigned a professor as a mentor. The task of the mentor is, in particular, the individual study-related counseling.

in German

Jedem/r Studierenden wird ein/eine Hochschullehrer/in als Mentor/in zugewiesen. Aufgabe des/der Mentors/in ist insbesondere die individuelle studienbegleitende Beratung.

Die Mentoren aus dem B.Sc. Studium an der Uni Köln werden im Studium M.Sc. beibehalten, können auf Wunsch aber gewechselt werden.

Bitte sprechen Sie bei Bedarf mit dem Prüfungsamt.
Mentor program

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Specialisation
This is a possibility but not an obligation

One Master of Chemistry
Four Areas of Specialization

**Nanochemistry & Functional Materials**
This specialization offers conceptual and experimental advancement in the chemistry of nanomaterials.
Starting from fundamental concepts of nanochemistry, you will acquire skills in the preparation, investigation, and characterization of nanostructured materials using a broad toolset of synthetic and analytical methods. You will experience the importance of materials in many applications and will learn to assess their potential in energy harvesting and storage, catalysis, (gas)sensing, biomedical applications and many more.

Program Advisors:
Prof. Sanjay Mathur
Prof. Uwe Ruschewitz

Advanced and Experimental Modules:
Inorganic and Physical Chemistry
3 Project modules and Master thesis in this area.

**Catalysis & Synthesis**
This program gives you access to modern concepts in synthesis and catalysis.
The program will provide you with training in the chemical synthesis of organic molecules with an emphasis on metal-, organo- and photocatalysis. You will learn about key concepts and how to apply modern synthetic (and analytical) methods for the synthesis of relevant compounds, such as bioactive agents, in an efficient, stereoselective and sustainable manner.

Program Advisors:
Prof. Ralf Giernoht
Prof. Albrecht Berkesel

Advanced and Experimental Modules:
Inorganic and Organic Chemistry
3 Project modules and Master thesis in this area.

**Photonics & Photochemistry**
This program gives you an insight to the exciting world of photonics and photochemistry.
You will be trained in the basics of photochemistry and photophysics of p-conjugated (supra-)molecular and plasmonic systems. You will acquire skills in designing structure-property relations and in using light to control chemical reactions. In addition, you will be involved in the preparation of photonic devices such as light-emitting diodes, solar cells, optical sensors and switches. Finally, you will learn how to use (laser-based) spectroscopic techniques for the in-depth characterization of the above systems.

Program Advisors:
Prof. Klaus Meerholz
Prof. Axel Griesbeck

Advanced and Experimental Modules:
Organic and Physical Chemistry
3 Project modules and Master thesis in this area.

**Bioorganic & Biological Chemistry**
This program gives you access to the exciting world of bioorganics.
Three modules are offered with a focus on biochemistry and bioorganic chemistry that provides students with a background in biochemistry, new insights into cellular enzymology with clinical aspects, structural biochemistry using X-ray crystallography, peptide synthesis and neuro-biochemistry.

Program Advisors:
Prof. Günter Schwarz
Prof. Hans-Günther Schmalz

Advanced and Experimental Modules:
Biochemistry and Organic Chemistry
3 Project modules and Master thesis in this area.
Zur Übersichtsseite Studium

Studiengänge
- Bachelor Chemie
- Master Chemie
- Bachelor Biochemie
- Master Biochemistry
- Lehramt
- Chemie für Biologen/innen
- Chemie für Mediziner/innen
- Studiengänge in Kooperation

Allgemeine Infos
- Fachschaft Chemie
- Laborversicherung
- Evaluation
- Anregungen und Kritik
- Bafög-Beauftragter

Internationales
Schule und Studieninteressierte
Promotion

Studieninfos
- Erstsemesterinformationen
- Unterlagen zu Informationsveranstaltungen
- Prüfungsorganisation
- Prüfungsssekretariate
- Studienberatung
- Studium Integrale
- Stundenplan
- Vorlesungsverzeichnis
- Dokumente/Ordnungen
- Tutorien Chemie

This presentation
Exam dates, registration periods
Timetable
Regulations
<table>
<thead>
<tr>
<th>Time</th>
<th>Monday</th>
<th>Tuesday</th>
<th>Wednesday</th>
<th>Thursday</th>
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<td>08.00-09.00</td>
<td>A-BC lecture 8.00 - 9.00 a.m.</td>
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<td>E-BC daily all-day A-AC Seminar SR B</td>
<td>A-AC Seminar SR B 8.00 - 11.00 a.m. preliminary discussions, security instructions 21/10/2019, 9 a.m. SR B</td>
<td>E-BC daily all-day A-PC lecture 11 a.m. to 1 p.m. Exp. SR 1</td>
<td>A-OC lecture 10 a.m. to 12 p.m. HS III</td>
<td>A-TC Seminar 10 a.m. to 11 a.m. Exp. SR 1</td>
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<td>E-BC daily all-day A-OC lecture</td>
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## Important, obligatory!

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<td>IC-E</td>
<td>03.02.2019</td>
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<td>OC-A</td>
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**02.10.2019, Matter of Changes**

**A- Modules:**
At the compulsory kick-off meeting, the talk assignment will take place. Please note that it will not be possible to obtain a presentation topic after this date.

**E-Modules:**
There is a compulsory attendance for this meeting and you will not be allowed to continue with this module, if you miss this appointment and the safety instructions.
Important, obligatory!

Enrollment period for all Advanced and Experimental Modules: in Klips from October 7 to October 13, 2019

Without registration for the module no participation is possible.

To take part in the E-Module you must be registered for the corresponding A-Module.

Choose only the modules you want to study in the actual semester.

De-register, if you changed your mind!
If you can’t do this by yourself, please inform the examination office!
Registrations of previous semester are not valid for the next one!
Be fair and don’t block places others are waiting for.
Important, obligatory!

Written and oral exams
You must register online in Klips for the written exams. **Without registration for the exam no participation is possible.**

Registration period: latest 7 days prior to the date of the exam. This is valid for all types of exams.

If you don’t show up, without a medical certificate, the exam will be counted as not passed. One of your three trials to pass the exam will be gone.
Online registration for modules- Klips 2.0

Registration status

Studienstatus
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<th>ID of study programme</th>
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<th>Curriculum</th>
<th>Status (17W)</th>
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Curricula Support v1.1

BB 032 Chemie (HG-NRW/20152, Master programme, current): eingeschrieben
Academic year 2017/18

Subject specific semester: 5

### Academic achievements, by: 09.01.2017 11:06

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Choose **only** the modules you want to study in the actual semester.

De-register, if you changed your mind!
Click on the plus symbol

Click on the T symbol

Then you can register for the type of lesson. You have to do it for all your modules (lecture, seminar, lab course) you want to study this semester.
If there are any problems with the registration in Klips 2.0 for modules or exams, please contact the examination office

Dr. Heike Henneken
heike.henneken@uni-koeln.de
-1791
Room Hs 113a
Participate and get connected!

Kolloquien im Wintersemester 2019_2020

Dienstag, 15. Oktober 2019 - 17:00 Uhr – JCF
Dr. Benedikt Wunder
PwC Germany, WPG, Manager – Smart Manufacturing
"Digitalisierung in der Chemie-Industrie – Aktuelle Trends und Beispiele aus der Praxis"

Dienstag, 22. Oktober 2019 - 17:30 Uhr – GDCh
Prof. Johannes Gerasimos da Vries
Head of Department Catalysis with renewable resources, Leibniz Institute for Catalysis (LIKAT), Rostock
"Catalytic Conversion of Renewable Resources into Bulk & Fine Chemicals"

Dienstag, 29. Oktober 2019 - 17:00 Uhr – Festvortrag – Porter Gaschmütter Lecture
Prof. Dr. Michael Grätzel
Institute of Chemical Science and Engineering, EPFL, Lausanne, Switzerland
"Molecular Photovoltaics and Perovskite Solar Cells"

Dienstag, 26. November 2019 - 17:00 Uhr – GDCh
Prof. Dr. Nicola Teusch / Prof. Dr. Axel Greibeck
Fachbereich Chemie, Heinrich-Heine-Universität Düsseldorf / Institut für Organische Chemie und Biochemie, Universität zu Köln
Teil 1: "Malariain, Artemesinin, Parasiten: Hopes and Misconceptions" (Axel Greibeck)
Teil 2: "Combating Drug Resistance in Cancer with Artemisinin & co" (Nicole Teusch)

Dienstag, 10. Dezember 2019 - 15:00 Uhr im Hörsaal I der Chemischen Institute
Dezenten des Departements für Chemie
Department für Chemie, Universität zu Köln
"Weihnachtskolloquium"

Dienstag, 17. Dezember 2019 - 17:00 – GDCh
Prof. Dr. Holger Braunschweig
Institut für Anorganische Chemie der Universität Würzburg
"Besonderheiten der Aktivierung kleiner Moleküle mit niedermolekularen Vorverbindungen"

Dienstag, 7. Januar 2020 - 17:00 Uhr – GDCh
Prof. Dr. Andreas Marx
Institut für Organische Chemie, Fachbereich Chemie der Universität Konstanz
"Chemistry and the Information beyond the Genome Sequence"

Dienstag, 14. Januar 2020 - 17:00 Uhr – GDCh + JCF
Prof. Dr. Siegfried Waldvogel
Institut für Organische Chemie, Universität Mainz
"Titel wird nachgesagt"

*** JCF *** = Veranstaltungen des Jung Chemiker Forums Köln

Die Vorträge finden – falls nicht anders angekündigt – im Hörsaal III der Chemischen Institute,
Universität zu Köln, Department für Chemie, Greinstrasse 4-6, 50939 Köln, statt.
Participate and get connected!

Graduation ceremony and Oktoberfest

October 8th, 2019
16:00
Kurt-Alder Lecture Hall
Go abroad!

Study Abroad

Get informed one year in advance.
Ideal: P- or S-modules at other university

Contact: Dr. Heike Henneken

http://www.vivateachers.org/lesley-study-abroad-find-out-everything-you-need-and-more/
Success and fun in your master study program!

Source: Danny Kennedy Fitness