We provide an online ZOOM digital meeting on **Monday, April 6, 11:00-13:00**, for all new Master students and the responsible people!!

If you want to participate, please use:
https://uni-koeln.zoom.us/j/201314020?pwd=T0VkQ0haaFJuVTIqYkY1MkpIS0pEUT09
(copy the link into your browser and start)
Meeting-ID: 201 314 020
**Passwort: 692425**
Welcome to the Department of Chemistry
Summer-Semester 2020

Class 19 (since start)/10 (since new system)
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

Prof. Dr. Ralf Giernoth
(Organic Chemistry)
Study Coordinator

Dr. Heike Henneken
(Physics)
Student Advisory Service,
International Affairs
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...)
- speaking (presentations...)

passive:
- reading (journals...)
- listening (lectures...)

...even your professors are not in teaching in English!

Nobody’s Prefect

Bild: https://lifehopeandtruth.com/life/christian-living/nobodys-perfect/
Expectations on the Master program

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

Establishing high level education and specialization
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

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Not possible for the Biochemistry A-module!
BC A&E is not in the 1\textsuperscript{st} semester...
Recommended study plan – 2. Semester

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## Recommended study plan – 3./4. Semester

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<td>Master-Thesis (6 months)</td>
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Total Credits: 21-33
Project modules

A: Chemical Project modules
- P-IC 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 defence 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 collection 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 SS2020

<table>
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<tbody>
<tr>
<td>Xxxxxx</td>
<td>Prof. xyz</td>
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</tbody>
</table>
Specialization
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 nano-structured 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 Giernoth
Prof. Albrecht Berkessel

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. Güнтер Schwarz
Prof. Hans-Günther Schmalz

Advanced and Experimental Modules: Biochemistry and Organic Chemistry
3 Project modules and Master thesis in this area.
http://www.chemie.uni-koeln.de/
time schedule

https://chemie.uni-koeln.de/en/studies/information-on-studies/time-tables
# Module responsibilities summer 2020

<table>
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<tr>
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<th>Area</th>
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<tr>
<td></td>
<td>IC</td>
<td>Prof. Dr. Mathias Wickleder</td>
<td><a href="mailto:mwicked@uni-koeln.de">mwicked@uni-koeln.de</a></td>
<td>-3262</td>
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<tr>
<td></td>
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<td>Dr. Jörn Bruns</td>
<td><a href="mailto:j.bruns@uni-koeln.de">j.bruns@uni-koeln.de</a></td>
<td>-76103</td>
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<tr>
<td></td>
<td>OC</td>
<td>PD Dr. Dirk Blunk</td>
<td><a href="mailto:d.blunk@uni-koeln.de">d.blunk@uni-koeln.de</a></td>
<td>-5213</td>
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<tr>
<td></td>
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<td>Prof. Dr. Bernd Goldfuß</td>
<td><a href="mailto:goldfuss@uni-koeln.de">goldfuss@uni-koeln.de</a></td>
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<td>PD Dr. Martin Breugst</td>
<td><a href="mailto:mbreugst@uni-koeln.de">mbreugst@uni-koeln.de</a></td>
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<tr>
<td></td>
<td>PC</td>
<td>Prof. Dr. Annette Schmidt</td>
<td><a href="mailto:annette.schmidt@uni-koeln.de">annette.schmidt@uni-koeln.de</a></td>
<td>-4265</td>
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<tr>
<td></td>
<td>TC</td>
<td>PD Dr. Michael Hanrath</td>
<td><a href="mailto:michael.hanrath@uni-koeln.de">michael.hanrath@uni-koeln.de</a></td>
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<td></td>
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<td>Prof. Dr. Uwe Ruschewitz</td>
<td><a href="mailto:uwe.ruschewitz@uni-koeln.de">uwe.ruschewitz@uni-koeln.de</a></td>
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<td>Dr. Hanna Krikcziokat</td>
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Stand per 26.03.2019, Matter of changes
## Important, obligatory!

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<td>IC-A</td>
<td>Thursday, 23. 04. 2020</td>
<td>11:00-12:30 in experimental seminar room B or digital via ILIAS. Further information to the IC-A-seminar after April 20th</td>
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<td>IC-E</td>
<td>10.8.2020</td>
<td>course time: 10.8.-9.10.2020 (6 weeks) in IC research groups</td>
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<tr>
<td>OC-A</td>
<td>Wednesday, 22. 04. 2020</td>
<td>11:00-12:30 in lecture hall III or digital via ILIAS (already starting April 8 !!!)</td>
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<td>OC-E</td>
<td>Digital meeting and preliminary discussion (also to the OC-A seminar): Wednesday, April 15, 16-18, via a ZOOM meeting (tba)</td>
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<td>Tuesday, 21.04.2020</td>
<td>lecture and seminar starts digitally on April 20th</td>
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<tr>
<td>TC-A</td>
<td>Wednesday, 22. 04. 2020</td>
<td>Script will be uploaded in ILIAS from April 8th; Seminar: questions will be uploaded in ILIAS from April 8th</td>
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A-modules: at the compulsory kick-off meetings, the talk assignment will take place. Please note that it will not be possible to obtain a presentation topic after this date. **Please keep up to 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. **Please keep up to date!!!**
Important, obligatory!

Enrollment period for all Advanced and Experimental Modules:
in Klips from **April 6 to April 12, 2020**

Without registration for the module no participation is possible.

To take part in the E-Module you **have to be registered for the corresponding A-Module**.

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

De-register, if you change 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

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<th>Studies</th>
<th>Resources</th>
<th>Services</th>
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<td>Exam Results</td>
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Registration status

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

De-register, if you change 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!
Go abroad!

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

Contact: Dr. Heike Henneken
Success and fun in your master study program!

Source: Danny Kennedy Fitness