

Chemistry International Master 2024/2025

615 years **Universität Leipzig**

- Second oldest university in Germany, founded in 1409
- Currently about 30.000 students, 450 professors, 2.600 staff, annual budget of about 400 Mio. Euro
- 14 faculties
- 150 study courses (49 Bachelor courses)

Fakultät für Chemie und Mineralogie

Faculty

<25 professors

100 first year students
BSc Chemistry

80 first year students
Teacher in Chemistry

900 students

>200 PhD students



Fakultät für Chemie und Mineralogie

Institutes

Institute for **Bioanalytical** Chemistry

Institute for **Analytical** Chemistry

Institute for **Inorganic** Chemistry and
Crystallography

Institute for **Organic** Chemistry

Institute for Techn./**Industrial** Chemistry

Wilhelm-Ostwald-Institute for **Physical**
and **Theoretical** Chemistry

Institute for **Didactics** of Chemistry



Fakultät für Chemie und Mineralogie

Cooperating research centers

Institute for Non-classical Chemistry

Biotechnological-Biomedicinal Center

Institute for Interdisciplinary Isotope
Research

Leibniz-Institute for
Surface Modification e.V.

Helmholtz-Center for Environmental
Research (Umweltforschung)



Organisation of the faculty

Dean

Prof. Dr. Christoph Schneider



Vice dean

Prof. Dr. Holger Kohlmann



Dean of study affairs

Prof. Dr. Reinhard Denecke



Administration, technical office, accounting, office of study affairs

Board of faculty

Study commission

Examination board

PhD board

Student board (Fachschaftsrat)

Direct student involvement!

Office of Study Affairs

Study counselling, Study organisation, examination office
International relations (ERASMUS, Int. Study courses)

Annegret Cornehl (Room 130)

For questions regarding exchange programs (Erasmus) and
international master courses

Dr. Sina Gruschinski (Room 128/29)

For questions regarding acknowledgment of modules, all international
master courses, handling of grades and certificates, study counseling

Organise Yourself

City office of Leipzig

Burgplatz 1, Documents: your passport

Opening a bank account

Deutsche Bank

Documents: your passport, copy from the city office, contract of fellowship or other financial sources

Accommodation

You have to pay a deposit (250,-€) and the first rent in cash at the office in Goethestr. 6, Zi. 222 during the first week of your stay.

Sign your room contract at your individual administrator (depending on the housing) during the next week

Foreigners' Authority („Ausländerbehörde“)

Documents:

Passport and one copy of the passport, confirmation of your address in Leipzig, Insurance documents, rooming contract, one photograph, inscription document from the university, contract of your fellowship or other financial sources.

If you do not have a fellowship you have to pay 100,- € for this residence permit.

Support by Buddy or Annegret Cornehl

Structure of SCS course

<u>Compulsory courses</u> (5 ECTS each)	20 ECTS
NMR: basic, techniques and spectral interpretation	(summer)
Chemistry of natural products	(winter)
Inorganic structural analysis	(summer)
„One-out-of-four“ physical chemistry	(winter or summer)

Choice obligatory courses (8 x 5 ECTS) 40 ECTS

Choice obligatory research lab courses (3 x 10 LP) 30 ECTS
(three different professors, min. two different institutes)

Master thesis 30 ECTS

(can be started if only 10 ECTS from choice obligatory courses are missing)
(duration 23 weeks)
(contact professor ahead of time – in 3rd semester!)

Structure of ASC course

<u>Compulsory courses</u> (1st semester, Lille)	30 ECTS
Mass spectrometry	(5 ECTS)
NMR	(5 ECTS)
Optical spectroscopy	(5 ECTS)
X-ray diffraction	(5 ECTS)
Quantum chemistry	(5 ECTS)
Language course	(5 ECTS)
<u>Compulsory course</u> (2nd semester) Synchrotron radiation	5 ECTS
<u>Compulsory course at Leipzig University</u> (2nd semester)	
Structural Analysis in Inorganic Chemistry	5 ECTS
<u>Choice obligatory courses</u> (9 x 5 ECTS)	45 ECTS
<u>Choice obligatory research lab course</u> (3rd semester, 1 x 10 LP)	10 ECTS
Master thesis	30 ECTS
(can be started if only 5 ECTS from choice-obligatory courses are missing)	
(duration 23 weeks)	
(contact professor ahead of time – now! 2nd reviewer within ASC)	

Choice obligatory courses

Name	Number SCS	term
Analysis of Solid Surfaces	13-122-0413	Winter
Nanostructured catalytic systems	13-122-0511	winter
Protein crystallography	13-122-1111	winter
Methods and procedures for Trace analysis	13-121-0125	winter
Bioorganic chemistry	11-121-1112	winter
Physical Chemistry of Clusters	13-121-0420	winter
Computational Chemistry of Solids	13-121-0624	winter
Recent trends in Chemistry	13-121-1416	winter
Function control at complex surfaces	13-121-0422	winter
Chemistry of natural products (only ASC)	13-121-0321	winter
Advanced methods in theoretical chem.	13-121-0623	winter

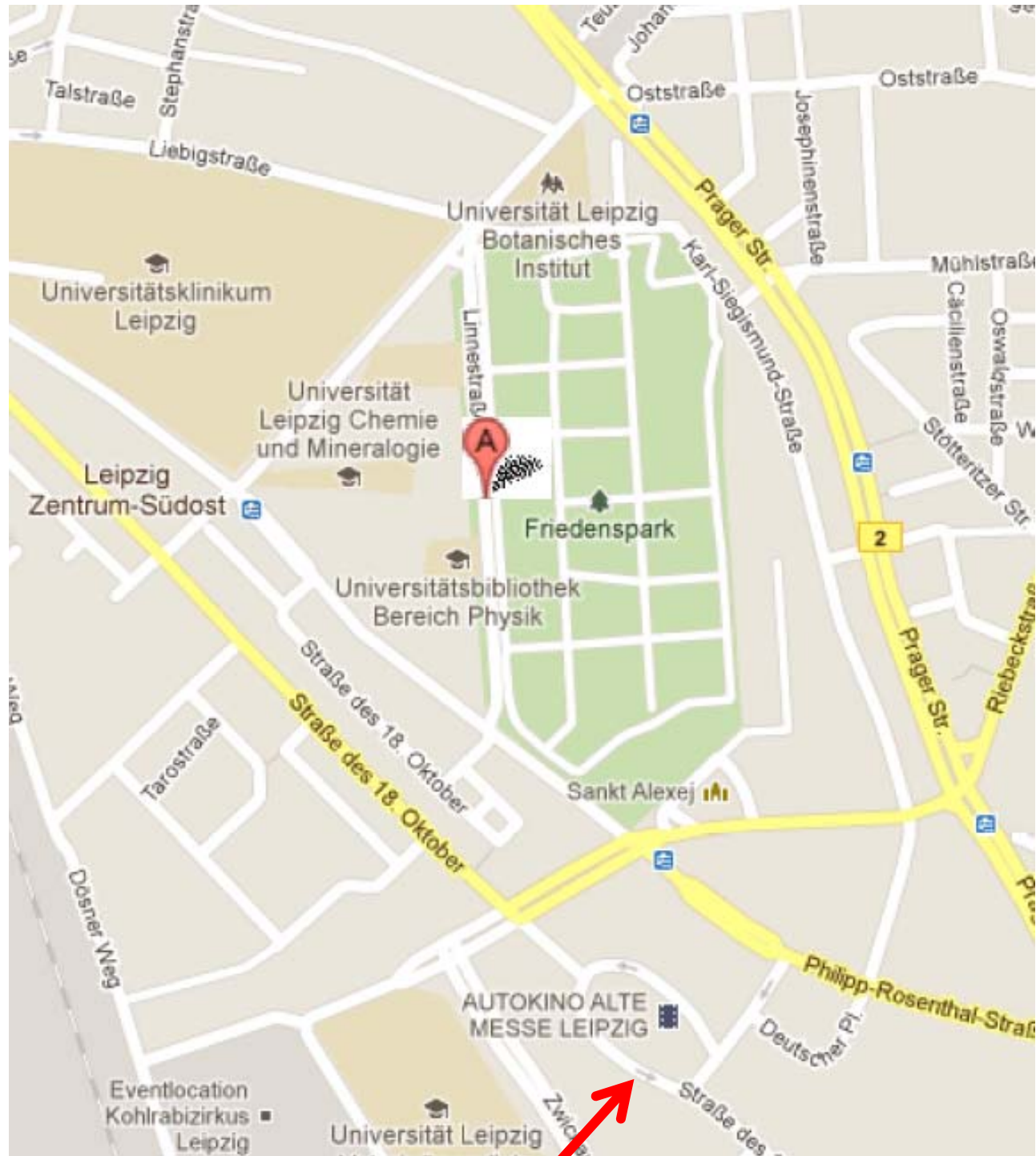
Choice obligatory courses

Name	Number SCS	term
Receptor Biochemistry	11-122-1121	summer
Spectroscopy (Elmag radiation - matter)	12-122-1511	summer
Homogeneous catalysis	13-121-0221	summer
Highlights in natural products synth.	13-122-0321	summer
Modern concepts in catalysis	13-122-0521	summer
Separation techniques and advanced „-omics“-techniques	13-121-1119	summer
Selected topics of NMR	13-122-0122	summer
Surface spectroscopy – methods and applications	13-121-0423	summer
Modern methods of theoretical chemistry	13-121-0621	summer
Recent trends in Chemistry	13-121-1416	summer

Your First SCS Term 2016

Monday	Tuesday	Wednesday	Thursday	Friday
	8:00-9:30 Mass Spectrometry BBZ Hoffmann	8:00-9:30 Mass Spectrometry BBZ Hoffmann	8:15-9:45 Methods & procedures for trace analysis R014 Reemtsma (plus 2SWS tba)	By choice: 1 Practical (10 ECTS)
8:30-10:00 Bioorganic chemistry Brüderstr. Beck-Sickinger Separate announcement		10:15-11:45 Surface analysis of solids R014 Denecke Start: 19.10.2016	10.15-11.45 NMR on Biosystems R115 Matysik	
11.15-12.45 Medicinal Chemistry Small Auditorium Giannis	11:00-12:30 Medicinal Chemistry Small auditorium Giannis			
	14:45-16:15 Nanostructured catalytic systems Small auditorium Enke, Gläser Seminar		13:15-14:45 Nanostructured catalytic systems R102 Enke, Gläser	13:15-14:00 NMR on Biosystems R101 Übung (practice)
13:15-14:00 NMR on biosystems R102 Matysik Seminar (not in first week)	17:15-18:45 Protein crystallography BBZ Sträter (plus 2 SWS tba)	On Appointment Practical NMR Seminar Medicinal Chemistry (tba in first lectures)	17:15-18:45 Protein crystallography BBZ Sträter (Alternative date)	

Faculty



BBZ

Your Third International Term

Choice Obligatory Modules:

Mass Spectrometry / *Prof. Dr. Hoffmann*

Monday, 8.00 - 9.30 Uhr, SR BBZ

Wednesday, 8.00 - 9.30 Uhr, SR im BBZ

Surface Analysis of Solids / *Prof. Dr. Denecke*

Wednesday, 13.00 – 14.30 Uhr, R 014, + 1 SWS, on app.

Nano Structured Catalytic Systems / *Prof. Dr. Gläser*

Thursday, 13.15- 14.45 Uhr, R 102

Tuesday, 14.45 - 16.15 Uhr, R 015 (Seminar)

Start: Thursday 15.10.15

Protein Crystallography / *Prof. Dr. Sträter*
Tuesday or Thursday, 17.15 - 18.45 Uhr, BBZ
Practical Protein Crystallography / *Prof. Dr. Sträter*
2 SWS, on appointment; Start: **Tuesday 13.10.15**

Methods and Procedures for Trace Analysis / *Prof. Dr. Reemtsma*
Thursday, 8.15 - 9.45 Uhr, R 014
(in addition 2 SWS Seminar bzw. Praktikum, on appointment)

Medicinal chemistry / *Prof. Dr. Giannis*
Monday 11.15 – 12.45 Uhr, kl. HS
Tuesday 11.00 – 12.30 Uhr, kl. HS

Bioorganic chemistry / *Prof. Dr. Beck-Sickinger*
Monday 8.30 – 10.00 Uhr, Brüderstr.
Begin: **Tuesday 15.10.15**, 11.00-12.30 Uhr

Registering for modules in winter semester 2024/25

All students have to register for the modules in their study programme at our faculty.
Register online via „[Tool](#)".

tool.uni-leipzig.de

Exempted from online registration:

- Advanced Laboratory courses (Master Chemistry, Mineralogy and Material Science, Advanced Spectroscopy in Chemistry and Structural Chemistry and Spectroscopy)

When? **1.10. until 08.10.2024 5:00 pm**

Registering for the module classes includes mandatory registering for the module exams.

Students will be excluded from the module exam if they are not registered for the module.

Visible in AlmaWeb after 10.10.2024

You can **sign out from a module** via **“AlmaWeb”** until **11.01.2025, 23.59 Uhr**. In that case you are also signed out from the module exam.

If you need assistance please ask Annegret Cornehl or buddy

SCS/ASC Research Projects 10 ECTS

With any Chemistry Professor by personal appointment

External projects have to be approved by a Chemistry professor and the Dean of study affairs beforehand

**Duration is one semester, start almost continuously
→ Maximum duration half a year**

Please contact possible supervisors ahead of time!

**„Yellow sheet“ for documentation: download from
Faculty website or pick up at/ email to Office of Study Affairs**

Important rules for exams

Modules with partial exams:

- Count as one exam → can only be passed or failed as a whole
 - if sick, single parts might be repeated
(medical confirmation for each part necessary)
 - if failed, all parts need to be repeated

Multiple exams in one module:

- without asterics: results are added and averaged; repetition only if average below 4,0; then only repetition of exam which was below 4,0

Repeat exam:

- sickness (medical confirmation): participation at 1st repeat exam compulsory
- Failed: participation in 1st repeat exam strongly recommended (loss of time)
(exemptions might make sense, repetition within one year compulsory)
(some modules might not be eligible)
- Please send message to lecturer in good time if you want to participate
- **Failed 2nd time: apply for 2nd repeat exam immediately, participate in next available exam**
- **Once an exam has been passed it cannot be repeated in order to improve the grade!**

Rules for Master Thesis

Only 10 ECTS (5 ECTS in ASC) missing from choice obligatory modules

➔ Lab courses (research projects) and obligatory modules must be finished

Duration 23 weeks

Protocol:

- both reviewers need to sign (ASC: external email ok)
- sign yourself to take on topic
- examination board signs
- due date in protocol is fixed

➔ then work can start!

Submission:

- pdf sufficient for keeping the date, 2 printed copies next w'day
- distribution to reviewers by examination office
(always, even pdf!!)

Colloquium (defense): usually after reviews are in (not necessarily)

- ➔ fix date with reviewers
- ➔ for ASC: instead of external reviewer other professor from UL
- ➔ submit date to examination office (allow enough time)

German language courses (optional)

Organized by Physics Department

Both **beginners** and **advanced** starting with level A2

Registration by email via Annegret Cornehl

(possibly also in summer term)

(more info on other options by Victoriia)

→ Take this opportunity!!



English Placement Test , Friday, 5.10.12, 9.15 -12.15

Where? (d)

computer suite S01,
basement,
Seminargebäude,
Universität Leipzig,
Universitätsstraße:

Access to computer suite either from Universitätsstraße (opposite Konsum/ Coffee Culture/Gewandhausgässchen, or from the inner courtyard (use doors next to Sparkasse/StuRa).

Need help?

Information about study, exams, regulations:

Dean of Study Affairs, local ASC coordinator

Prof. Dr. R. Denecke (ASC)

Email: denecke@uni-leipzig.de

Consultations to be announced

Please first contact **Dr. Gruschinski** or **Ms. Cornehl** for appointment and general information

Examination office

Dr. Sina Gruschinski

sina.gruschinski@uni-leipzig.de

Room 128/29

Consulting:

Annegret Cornehl

annegret.cornehl@uni-leipzig.de

Room 130

contact hours: Tue 1-3 pm & Thu 9-12 am (walk in)

Tue 9-12 am & 1-03 pm (telephone)

Buddy

Niloufar (Master student)

buddychemie@uni-leipzig.de

If in doubt please contact us immediately!

The possibilities to help are much more abundant and the chances for a good solution are much better before than after an event!

Better ask one time too many instead of too late!