Course offer for the winter semester 2022/2023*)

**M.Sc. Structural Chemistry and Spectroscopy**

**1st/3rd semester**

### Induction

**Induction meeting:** 28 September 2022, 01:00 pm  
For Zoom link see info paper

**Information for new students:**  
[www.chemie.uni-leipzig.de/en/study/during-your-studies/start-of-studies](http://www.chemie.uni-leipzig.de/en/study/during-your-studies/start-of-studies)

### Obligatory modules // Classes start: 10 October 2022

<table>
<thead>
<tr>
<th>Schedule</th>
<th>Location</th>
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<tbody>
<tr>
<td><strong>Monday</strong></td>
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<tr>
<td>11.15 am</td>
<td>HS 04</td>
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<tr>
<td>- 12.45 pm</td>
<td>Chemistry of natural products / 13-121-0321</td>
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<td><strong>Tuesday</strong></td>
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<tr>
<td>01.15 – 02.45 pm</td>
<td>HS 04</td>
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<tr>
<td>- L/S</td>
<td>Chemistry of natural products / 13-121-0321</td>
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**Physical Chem.**  
(1 module min.)  
In the course of your studies, you will need to take at least one of the modules listed below:

- Physical Chemistry of Clusters / 13-121-0420 (winter semester, cf. list of choice obligatory modules)  
- Function Control at Complex Surfaces / 13-121-0422 (winter semester)  
- Surface Spectroscopy - Methods and Applications / 13-121-0423 (summer semester)  
- Modern Methods in Theoretical Chemistry / 13-121-0621 (summer semester)  

**New:**  
The module “NMR on Biosystems” (13-122-0121) will be offered in the summer semester.

**Professors:**  
Chemistry of natural products  
Dr. Kries
## Choice Obligatory Modules

<table>
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<tr>
<th>Schedule</th>
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<tr>
<td><strong>Bioorganic chemistry / 11-121-1112 / Prof. Dr. Beck-Sickinger &amp; staff</strong>&lt;br&gt;M&lt;br&gt;Monday, 08.30-10.00 am&lt;br&gt;17.10.2022-31.01.2023&lt;br&gt;Induction: 10.10.2022 at 08.15-09.45 am&lt;br&gt;S&lt;br&gt;Monday, 5.00-6.30 pm&lt;br&gt;Wednesday, 5.00-6.30 pm&lt;br&gt;In groups, 7 appointments per person</td>
<td>Beckmann-HS, Brüderstr. 34</td>
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<tr>
<td><strong>Spurenanalytische Methoden und Verfahren (Methods and Procedures for Trace Analysis; in English) / 13-121-0125 / Prof. Dr. Reemtsma</strong>&lt;br&gt;L&lt;br&gt;Thursday, 8.15-9.45 am&lt;br&gt;S/E&lt;br&gt;+ 2 SWS, upon on appointment</td>
<td>HS 04</td>
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<td><strong>Proteinkristallographie (Protein Crystallography; in English) / 13-121-1120 / Prof. Dr. Sträter</strong>&lt;br&gt;L&lt;br&gt;Thursday, 5.15 - 6.45 pm&lt;br&gt;Starts 20.10.2022&lt;br&gt;E&lt;br&gt;+ SWS&lt;br&gt;Further details to be announced by the professor</td>
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<td><strong>Analysis of Solid State Surfaces / 13-122-0413 / Prof. Dr. Denecke</strong>&lt;br&gt;L&lt;br&gt;Wednesday, 10.15-11.45 am&lt;br&gt;+ 1 SWS, on appointment</td>
<td>SR 115</td>
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<tr>
<td><strong>Physikalische Chemie der Cluster (Physical Chemistry of Clusters; in English) / 13-121-0420 / Prof. Dr. Asmis</strong>&lt;br&gt;L&lt;br&gt;Wednesday, 1.30-2.30 pm&lt;br&gt;L&lt;br&gt;Friday, 2.45-4.00 pm</td>
<td>Kl.HS, HS 04</td>
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<tr>
<td><strong>Funktionskontrolle an komplexen Oberflächen (Function Control at Complex Surfaces; in English) /Prof. Abel, Dr. Schulze</strong>&lt;br&gt;L&lt;br&gt;Monday, 11.15-12.45 am&lt;br&gt;S&lt;br&gt;Tuesday, 11.15-12.45 am (bi-weekly)</td>
<td>SR 101, Kl. HS</td>
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<td><strong>Nanostructured Catalytic Systems / 13-122-0511 / n.n.</strong>&lt;br&gt;L&lt;br&gt;2 SWS&lt;br&gt;S&lt;br&gt;2 SWS&lt;br&gt;UPDATE! postponed to the summer semester 2023</td>
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<td><strong>Computerchemie für Festkörper (Computational Chemistry for Solids; in English) / 13-121-0642 / Dr. Kuc</strong>&lt;br&gt;L&lt;br&gt;Friday, 11.15-12.45 am&lt;br&gt;E&lt;br&gt;+ 3 SWS exercises on the computer, upon appointment</td>
<td>SR 115</td>
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*) The time table is subject to change
Aktuelle Entwicklungen in der Chemie (Recent Trends in Chemistry; in English) / 13-121-1416 / different LU professors and internatl. guest scholars

L 1 SWS  Photovoltaic, PD Dr. Kahnt
          Tuesday, 11.15 am-12.45 pm, bi-weekly          SR 014

L 2 SWS  Homogeneous catalysis: from basics to advanced applications
          Prof. Dr. Dmitri Gelman, The Hebrew University in Jerusalem, Israel
          Tuesday, 03.00-04.30 pm              SR 014
          Wednesday, 02.45-03.15 pm           SR 101
          Starts on 11.10.2022, further dates will be announced by the lecturer

L 2 SWS  Organometallic chemistry towards organic synthesis and advanced materials
          Prof. Dr. Dmitri Gelman, The Hebrew University in Jerusalem, Israel
          Thursday, 08.00-09.30 am          Kl.HS
          Friday, 12.45-02.15 pm              SR 102
          Starts on 13.10.2022, further dates will be announced by the lecturer

Important: For completing this module, you need to select lectures totalling 3 SWS. You have two successive semesters for completing the module. Further lectures of 1 SWS and 2 SWS respectively, will be offered in the summer semester 2023.

Key:

E = Exercise / L = Lecture / P = Lab Course / S = Seminar / T = Tutorial
13-231-____ = module number
BBZ = Centre for Biotechnology and Biomedicine (BBZ), Deutscher Platz 5
Exp. HS = "Arthur-Hantzsch" Lecture Hall (Room 027), Johannisallee 29
GHS = "Großer Hörsaal", Fakultät für Physik & Geowissenschaften, Linnéstraße 5
HS = Lecture Hall
HS 4 = Lecture Hall 4, Linnéstraße 2, Wilhelm-Ostwald-Institut
IMKM = Institut of Mineralogy, Cristalography and Material Science, Scharnhorststr. 20
Kl. HS = "Johannes-Wislicenus" Lecture Hall (Room 015), Johannisallee 29; if no differing address is given
R ____ = class rooms at the Faculty's main building, Johannisallee 29; if no differing address is given
PC Pool = Linnéstraße 3, Technikum Analytikum
TA = Technikum Analytikum, Linnéstraße 3

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