

Elective Module

Advanced Soft Matter and Materials (6 CP), 3rd semester

Information for selection in winter semester 2026/2027

To complete the module “Advanced Soft Matter and Materials”, you have to earn **6 credit points**. Therefore, please choose one module à 6 CP listed below offered by JGU Mainz or by TU Darmstadt.

Please review the course content (see “3. Course descriptions”) and consider whether it is suitable for you before registering for the module. Within the first lecture week you have the option to change your choice. Afterwards, this is only possible once and via an [application](#) (see [Examination Regulations](#), Section 17 (4)).

One of the modules contains the attendance of institute colloquia. Please see the notes below (“2. Institute Colloquia and other relevant seminars”).

All modules listed are held in English.

1. Elective Courses

JGU Mainz

M.09.032.22_640 Condensed Matter (6 CPs) *

provided it was not already taken as an elective in a previous winter semester

- 08.128.7012 Lecture “Introduction to Advanced Materials - From Soft Matter to Hard Matter”
- 09.032.22_805 Seminar

M.09.677.22_05a Biochemistry (6 CPs) *

provided it was not already taken as an elective in a previous winter semester

- 09.032.22_970 Lecture “Methods of Biochemistry”
- 09.032.22_980 Seminar

M.09.032.22_630 Modern Methods of Physical Chemistry (6 CPs) **

- 09.032.22_610 Lecture „Modern Methods of Physical Chemistry”
- 09.032.22_615 Supporting exercise

M.09.032.22_600b Medical Polymers and Colloquium Lectures (6 CPs)

- 09.032.22_590 Lecture “Medically relevant polymers” **
 - 09.032.22_601 Colloquium lectures
- => see “2. Institute colloquia and other relevant seminars”

- ⇒ Register only via JOGU-StI Ne for one module (à 6 CPs) and the belonging courses.
- ⇒ You will find the module “Advanced Soft Matter and Material” under “Registration”
=> “Deepening phase”

TU Darmstadt

05-61-2220 Seminar Current Topics of Structure and Dynamics in Soft Matter (6 CPs) ***

- ⇒ Register via TUCaN

2. Institute colloquia and other relevant seminars

Suitable lecture series are listed below; others may also be considered but must be agreed upon in advance with one of the course coordinators in Mainz (Prof. Seiffert) or Darmstadt (Prof. von Klitzing). Each lecture must be summarized (approx. 1 page). To pass, a total of 15 summaries must be submitted.

JGU Mainz

- Collaborative Research Centre (Sonderforschungsbereich, SFB) 1552 <https://sfb1552.de/all-events/>
- Research Training Group (Graduiertenkolleg, GRK) 2516 <https://grk2516.uni-mainz.de/seminars/>
- Collaborative Research Centre Transregio (TRR) 146 <https://trr146.uni-mainz.de/seminars/>
- Colloquia of the Department of Chemistry: <https://www.chemie.uni-mainz.de/en/#public-events>

TU Darmstadt

- https://www.physik.tu-darmstadt.de/aktuelles_physik/index.en.jsp
- https://www.chemie.tu-darmstadt.de/aktuelles_chem/veranstaltungen_chem/kolloquien_chem/index.en.jsp
- https://www.chemie.tu-darmstadt.de/aktuelles_chem/veranstaltungen_chem/gdch_kolloquien_chem/index.de.jsp

Max Planck Institute for Polymer Research

- <https://www.mpip-mainz.mpg.de/en/events>

3. Course descriptions

* https://studienbuero.chemie.uni-mainz.de/files/2023/09/Modulhandbuch_MSc_Soft_Matter_EN_230606.pdf

** https://studyoffice.chemistry.uni-mainz.de/files/2025/04/MSc_Chemie_MH_E_250403.pdf

*** see [TUCaN](#)