

Elective Module **Advanced Soft Matter and Materials** (6 CP)

3rd semester

Information for selection in summer semester 2026

To complete the module “Advanced Soft Matter and Materials”, you have to earn **6 credit points**. Therefore, please choose either one module à 6 CP or two courses à 3 CP listed below offered by JGU Mainz, by TU Darmstadt or offered jointly.

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)).

Some of the modules contain 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_620 Biophysical Chemistry (6 CP) *

- 09.032.22_600 Lecture Biophysical Chemistry
- 09.032.22_605 Supporting exercise

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

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

M.09.032.22_612 Complex (Supra)Molecular Systems and Colloquium Lectures (6 CP)

- 09.032.22_595 Lecture Complex (Supra)Molecular Systems *
- 09.032.22_601 Colloquium lectures

⇒ Register only via JOGU-StINE for one module (à 6 CPs) and the belonging courses.

TU Darmstadt

07-08-0048 Lecture Synthetic Biology for Polymers and Engineered Materials (3 CP)**

07-08-0046 Lecture Fluorescence Microscopy: From Physical Principles to Quantitative Image Analysis (3 CP)**

05-61-3109 Colloquium lectures (3 CP)**

⇒ Register via TUCaN for two courses (à 3 CP).

Joint Module

M.09.032.22_611 Complex (Supra)Molecular Systems / Synthetic Biology for Polymers and Engineered Materials (6 CP)

- 09.032.22_595 Lecture Complex (Supra)Molecular Systems*
- 07-08-0048 Lecture Synthetic Biology for Polymers and Engineered Materials**

⇒ Register via JOGU-StInE for the module M.09.032.22_611 and the belonging courses AND via TUCaN for 07-08-0048

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

** see [TUCaN](#)