





**Short summary of the examination regulations of the master degree program Nanoscience and Nanotechnology from June, 6th 2023 (Fachprüfungsordnung (FPO-M) für das Fach Nanoscience and Nanotechnology (NANO) im Masterstudium an der Universität Siegen vom 06.06.2023)**

Depending on the bachelor background students have to complete compulsory modules assigned for the first semester. The compulsory modules are shown in students' unisono account.





Compulsory modules from the first semester with Physics bachelor background:

|   |  |       |             |
|---|--|-------|-------------|
| ▶ |  General chemistry for physicists             | Modul | 4CHEMMAEX04 |
| ▶ |  Advanced solid-state physics for nanoscience | Modul | 4PHYMAEX02  |
| ▶ |  Nanotechnology                              | Modul | 4ETMA358    |
| ▶ |  Graduate nano-seminar                      | Modul | 4NANOMA1    |

Compulsory modules from the first semester with Chemistry bachelor background:

|   |   |       |            |
|---|---|-------|------------|
| ▶ |  Solid-state physics for nanoscience | Modul | 4PHYMAEX01 |
| ▶ |  Quantum theory for nanoscience      | Modul | 4PHYMAEX03 |
| ▶ |  Nanotechnology                      | Modul | 4ETMA358   |
| ▶ |  Graduate nano-seminar               | Modul | 4NANOMA1   |

Compulsory modules from the first semester with Electrical Engineering bachelor background:

|      |   |   |             |
|------|---|---|-------------|
| .... | ▶ |  General Modul<br>chemistry<br>for<br>engineers      | 4CHEMMAEX03 |
| .... | ▶ |  Solid- Modul<br>state<br>physics for<br>nanoscience | 4PHYMAEX01  |
| .... | ▶ |  Modul<br>Quantum<br>theory for<br>nanoscience       | 4PHYMAEX03  |
| .... | ▶ |  Modul<br>Graduate<br>nano-<br>seminar               | 4NANOMA1    |

Compulsory modules from the first semester with other bachelor backgrounds shall be determined by the examination board.


Compulsory modules scheduled for the second semester for all students are as follows:











|          |   |
|----------|---|
| 4NANOMA2 | Nanochemistry   |
| 4NANOMA3 | Physics of<br>nanoelectronic devices                            |
| 4NANOMA4 | Lab-course micro and<br>nanotechnology                          |
| 4NANOMA5 | Lab-course<br>nanosynthesis,<br>nanosafety and<br>nanoanalytics |

One elective module is scheduled for the second semester as well.

Students have to register for the lectures, exercises, laboratory courses etc. and for the respective examinations and each academic achievement through unisono. Some modules have compulsory academic achievements which should be also registered through unisono and successfully passed.

For example:

 General chemistry Module for physicists 4CHEMMAEX04

|  |  |                    |                 |
|--|--|--------------------|-----------------|
|   |  General chemistry for physicists (Vorlesung)       | Lecture Group      | 4CHEMMAEX04-VG1 |
|   |  General chemistry for physicists (Übung)           | Lecture Group      | 4CHEMMAEX04-VG2 |
|   |  General chemistry for physicists (Laborpraktikum)  | Lecture Group      | 4CHEMMAEX04-VG3 |
|   |  Laborpraktikum General chemistry for physicists    | Course Achievement | 4CHEMMAEX04-S   |
|  |  Prüfungsleistung General chemistry for physicists | examination        | 4CHEMMAEX04-P   |

There are two examination periods each semester. The exact periods as well as the registration deadlines shall be announced by the examination office in due time.

Examinations, with exception of the master thesis, which are failed or considered as not passed, can be repeated twice. Non-graded academic achievements can be repeated without restriction. If the right to examination in one of the elective modules is revoked, the candidate can choose another elective module one time only.

If an examination entitlement expires in a compulsory module, the candidate may apply to the examination committee within four weeks for an oral examination in the module for which the examination qualification has expired, provided certain conditions are fulfilled. The oral examination is not possible after the sixth semester. The master thesis is excluded from this regulation.

If an exam, with exception of the master thesis and laboratory course Micro and Nanotechnology, is failed by otherwise continuous studies in consistence with the curriculum (right sequence of the modules, exam taken in the first examination period after the respective lecture and not having been repeated yet), it can be counted as a free attempt upon an application addressed to the examination office. This regulation does not apply if the examination was declared to be unsuccessful on the basis of an unlawful conduct, in particular an attempt to deceive.

Regular withdrawal is possible one week prior to the examination date. In case of an illness a medical certificate should be provided to the examination office within three days after the examination date.