English taught courses offered by the Institute of Chemistry

The institute of Chemistry offers three study programs:

1. "Chemistry" Bachelor´s degree program is taught in German language only.
   No English taught courses available!
2. "Chemistry" Master´s degree program is taught in German and/or English language.
3. "Advanced Functional Materials" master degree program is taught in English language.

English taught courses within **Chemistry** master degree program:

module	**credit points**	**details**	**period**	**Remarks**
Polymer Materials	5 cp	V: 2 LVS S: 1 LVS P: 1 LVS	winter term	*Advanced polymer chemistry course*
Crystallography	5 cp	V: 2 LVS Ü: 2 LVS	winter term	
Material Characterisation	5 cp	V: 2 LVS S: 2 LVS	winter term	
Elektrochemie funktioneller Nanomaterialien	5 cp	V: 2 LVS S: 1 LVS	winter term	
Photocatalysis	5 cp	V: 2 LVS S: 1 LVS	winter term	
Stereoselective Synthesis	5 cp	V: 3 LVS S: 1 LVS	winter term	
Synthesis of complex molecules / economies of synthesis	5 cp	V: 3 LVS S: 1 LVS	winter term	
Circular economy of polymers	5 cp	V: 2 LVS P: 1 LVS	winter term	
Molecular electronics	5 cp	V: 2 LVS S: 1 LVS	winter term	
Aspekte der modernen Chemie	5 cp	V: 2 LVS Ü: 1 LVS	winter term, every second year	
Synthesis of functional polymers for energy conversion and storage	5 cp	V: 2 LVS P: 1 LVS	summer term	*Advanced polymer chemistry course*
Lab Course Colloids & Interfaces	5 cp	P: 4 LVS	summer term	*Lab course*
Biochemistry Basics	5 cp	V: 2 LVS S: 1 LVS	summer term	
Modern synthetic methods and homogeneous catalysis	10 cp	V: 4 LVS S: 4 LVS	summer term	
Sustainable Chemical Production Technologies	5 cp	V: 2 LVS S: 2 LVS	summer term	
Applied Research Methods	5 cp	S: 4 LVS	summer term	
Chemische Physik	5 cp	S: 2 LVS Ü: 1 LVS	summer term	may be taught in English language

Computational Chemistry	5 cp	V: 2 LVS P: 2 LVS	summer term	
Colloids & Interfaces	5 cp	V: 4 LVS	summer term	
Polymerphysik	5 cp	V: 2 LVS Ü: 1 LVS	summer term	*German course, but may be held in English*

Advanced Functional Materials master degree program:

module	**credit points**	**details**	**period**	**Remarks**
Advanced Concepts in Chemistry and Physics	5 cp	V: 3 LVS (chemistry) V: 3 LVS (physics)	winter term	
Synthetic Methods in Chemistry	5 cp	V: 2 LVS (inorganic chemistry) V: 1 LVS (polymer chemistry)	winter term	
Surfaces, Thin Films and Interfaces	5 cp	V: 2 LVS Ü: 2 LVS	winter term	Physics course
Physics of Solar Cells	5 cp	V: 2 LVS Ü: 1 LVS	winter term	Physics course
Methods and applications of magnetic materials (magnetism II)	5 cp	V: 2 LVS Ü: 2 LVS	winter term	Physics course
Light Emitting Diodes, Laser Diodes, and Optical Sensor Systems	5 cp	V: 2 LVS Ü: 1 LVS	winter term	Physics course
Aspects of modern optics	5 cp	V: 2 LVS Ü: 2 LVS	winter term	Physics course
Halide Perovskites in Optoelectronics	5 cp	V: 3 LVS S: 1 LVS	winter term	Physics course
Physics of Organic Semiconductors	5 cp	V: 2 LVS Ü: 1 LVS	summer term, every second year	Physics course
Semiconductor Physics – Nano Structures	5 cp	V: 3 LVS Ü: 1 LVS	summer term	Physics course
Facets of Materials Science	5 cp	V: 2 LVS S: 2 LVS T: 1 LVS	summer term	
Physics of 2D Materials	5 cp	V: 2 LVS Ü: 2 LVS	summer term	Physics course
Introduction to magnetic materials (magnetism I)	5 cp	V: 2 LVS Ü: 2 LVS	summer term	Physics course