

## Module Overview B.Sc. Chemistry - 12 Semesters (Variant 1)

Degree Programme Guidelines as per 01.10.2022, State: 01.10.2022 (SB2022II)

The degree programme consists of 180 Credit Points (CP) in total:

<b>Mandatory Subject Area:</b>	109 CP		<b>Elective Subject Area:</b>	9-14 CP	
<b>Mandatory Laboratories:</b>	42 CP		<b>Bachelor's Thesis:</b>	12 CP	
<b>Studium Generale:</b>	3-8 CP				

**Language of Tuition:**  
**GERMAN**  
*Certificates required*



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This leads to the following *possible* part-time semester course schedule:

1. Semester	2. Semester	3. Semester	4. Semester	5. Semester	6. Semester
Orientation and Mentoring (0 CP)	Inorganic Chemistry I (4 CP)	Inorganic Chemistry II (4 CP)	Physical Chemistry I (8 CP)	Organic Chemistry I (7 CP)	Instrumental Methods I (5 CP)
Safety Instruction (0 CP)		Mathematics (8 CP)		Project „DaMocles“ (2 CP)	
General Chemistry (8 CP)				Introduction to Biochemistry (5 CP)	
Analytic Chemistry (3 CP)	Basic Laboratory Course in Inorganic Chemistry (11 CP)		Basic Laboratory Course in Physical Chemistry (4 CP)		Basic Laboratory Course in Organic Chemistry (10 CP)
Laboratory Course in General Chemistry (2 CP)			Elective Subject Area - Chemical electives (9-14 CP)		
Basic Laboratory Course in Analytic Chemistry (5 CP)			Interdisciplinary Elective Area (3-8 CP) *		
Ø 15 CP	Ø 15 CP	Ø 15 CP	Ø 15 CP	Ø 15 CP	Ø 15 CP
7. Semester	8. Semester	9. Semester	10. Semester	11. Semester	12. Semester
Physical Chemistry II (8 CP)	Physical Chemistry III (4 CP)	Physics I (5 CP)	Physics II (5 CP)	Computational Theoretical Chemistry (3 CP)	Bachelor's Thesis (12 CP)
Introduction to Macromolecular Chemistry (5 CP)	Organic Chemistry II (8 CP)	Instrumental Methods II (3 CP)	Chemical Technology I (7 CP)		
		Toxicology (1 CP)			
Basic Laboratory Course in Physics (3 CP)		Physical Chemistry IV (4 CP)		Basic Laboratory Course in Chemical Technology (7 CP)	
		Chemical Law (2 CP)			
	Elective Subject Area - Chemical electives (9-14 CP)				
	Studium Generale (3-8 CP) *				
Ø 15 CP	Ø 15 CP	Ø 15 CP	Ø 15 CP	Ø 15 CP	Ø 15 CP

\* These courses may be chosen from the general TU Darmstadt course catalogue (except catalogue of the Department of Chemistry).