

Exclosure to Subject Specific Regulations from  
25.07.2018

for Bachelor-Programme Bioverfahrenstechnik  
at TUHH

Programme Director: Prof. An-Ping Zeng

Total: 180 CP

Number of Specilisations to choose: 0



## Course Scheme Bachelor Bioprocess Engineering (BVTBS)

Consolidated Version

for Study Cohort: WiSe18/19

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and Approval of Chair from: 24.04.2019

Replaces Version from: 25.07.2018

In Force on: 01.10.2019

Out of Force on: 31.03.2023

Information regarding the lectures are available in the TUHH modul manuals as well as in the course catalogue.

Re com. Term	Module Name (German / English)	Module		Exami nation						Course Work			
		Language	Module Responsibility	Institute	C/EC (1)	CM/ OM (2)	CP (4)	Grade	Exami nation Form(3)	Compulsory	Course Work Type	Bonus (in %)	
<b>Core qualification</b> Compulsory Courses: 165 LP Optional Courses: 3 LP													
1	Allgemeine und Anorganische Chemie / General and Inorganic Chemistry	DE	Prof. Luinstra	0-UNIHH	C	CM	6	Y	KL	Y	FFST	0	
1	Grundlagen der Verfahrenstechnik und Werkstofftechnik / Fundamentals of Process Engineering and Material Engineering	DE	Prof. Schlüter	V-5	C	CM	3	Y	KL	Y	SA	0	
1	Mathematik I / Mathematics I	DE	Prof. Taraz	E-10	C	CM	8	Y	KL				
1	Physik / Physics	DE / EN	Prof. Hansen	0-UNIHH	C	CM	6	Y	KL	N	ÜA	20	
1	Technische Mechanik I / Engineering Mechanics I	DE	Prof. Weltin	M-24	C	CM	6	Y	KL				
1	Grundlagen des Technischen Zeichnens / Fundamentals of technical drawing	DE	Dr. Hoffmann	V-5	EC	CM	3	Y	KL	Y	ÜA	5	
2	Biochemie und Mikrobiologie / Biochemistry and Microbiology	DE	Dr. Bubenheim	V-6	C	CM	6	Y	KL				
2	Mathematik II / Mathematics II	DE	Prof. Taraz	E-10	C	CM	8	Y	KL				
2	Organische Chemie / Organic Chemistry	DE	Dr. Neffe	0-UNIHH	C	CM	6	Y	KL	Y	FFST	0	
2	Technische Mechanik II / Engineering Mechanics II	DE	Prof. Weltin	M-24	C	CM	6	Y	KL				
2	Technische Thermodynamik I / Technical Thermodynamics I	DE	Prof. Schmitz	M-21	C	CM	6	Y	KL				
3	Grundlagen der Elektrotechnik / Basics of Electrical Engineering	DE	Prof. Kern	M-4	C	CM	6	Y	KL				
3	Mathematik III / Mathematics III	DE	Prof. Taraz	0-UNIHH	C	CM	8	Y	KL				
3	Molekularbiologische Grundlagen / Fundamentals in Molecular Biology	DE	Dr. Schäfers	V-7	C	CM	6	Y	KL	Y	FFST	10	
3	Technische Thermodynamik II / Technical Thermodynamics II	DE	Prof. Schmitz	M-21	C	CM	6	Y	KL				
3	Physikalische Chemie / Physical Chemistry	DE	Prof. Moritz	0-UNIHH	EC	CM	3	Y	KL	Y	FFST	0	
4	Bioverfahrenstechnik - Grundlagen / Bioprocess Engineering - Fundamentals	DE	Prof. Liese	V-6	C	CM	6	Y	KL	Y	FFST	5	

Re com. Term	Module						Exami nation			Course Work		
	Module Name (German / English)	Language	Module Responsibility	Institute	C/EC (1)	CM/OM (2)	CP (4)	Grade	Exami nation Form(3)	Compulsory	Course Work Type	Bonus (in %)
4	Grundlagen der Betriebswirtschaftslehre / Foundations of Management	DE	Prof. Ihl	W-11	C	CM	6	Y	FFA			
4	Grundlagen der Strömungsmechanik / Fundamentals of Fluid Mechanics	DE	Prof. Schlüter	V-5	C	CM	6	Y	KL	Y	MT	5
4	Informatik für Verfahreningenieure / Informatics for Process Engineers	DE	Dr. Venzke	E-17	C	CM	6	Y	KL			
4	Phasengleichgewichtsthermodynamik / Phase Equilibria Thermodynamics	DE	Prof. Smirnova	V-8	C	CM	6	Y	KL			
4	Umweltbewertung / Environmental Technology	DE / EN	Prof. Kaltschmitt	V-9	EC	CM	3	Y	KL			
5	Bioverfahrenstechnik - Vertiefung / Bioprocess Engineering - Advanced	DE	Prof. Zeng	V-1	C	CM	6	Y	KL			
5	Grundlagen der Regelungstechnik / Introduction to Control Systems	DE	Prof. Werner	E-14	C	CM	6	Y	KL			
5	Thermische Grundoperationen / Thermal Separation Processes	DE / EN	Prof. Smirnova	V-8	C	CM	6	Y	KL			
5	Wärme- und Stoffübertragung / Heat and Mass Transfer	DE	Prof. Smirnova	V-8	C	CM	6	Y	KL			
5-6	Chemische Reaktionstechnik / Chemical Reaction Engineering	DE / EN	Prof. Horn	V-2	C	CM	6	Y	KL	Y	FFST	0
5-6	Umwelttechnik / Environmental Technology	DE	Prof. Kaltschmitt	V-9	EC	CM	3	Y	KL	Y	FFST	0
6	Partikeltechnologie und Feststoffverfahrenstechnik I / Particle Technology and Solids Process Engineering	DE / EN	Prof. Heinrich	V-3	C	CM	6	Y	KL	Y	SA	0
6	Prozess- und Anlagentechnik I / Process and Plant Engineering I	DE	Prof. Fieg	V-4	C	CM	6	Y	KL	Y	FFST	10
1-6	Nichttechnische Ergänzungskurse im Bachelor / Nontechnical Complementary Courses for Bachelors	DE / EN	Richter	0-TUHH	C	OM	6	Selection out of seperatly published Catalogue				
<b>Thesis</b> Compulsory Courses: 12 LP Optional Courses: 0 LP												
6	Bachelorarbeit / Bachelor Thesis		Professoren der TUHH	0-TUHH	C	CM	12	Y	AB			

#### Explanation:

<sup>1</sup>C=Compulsory, EC=Elective Compulsory

<sup>2</sup>CM=Compulsory Defined Module, OM=Optional Defined Module

<sup>3</sup>KL=Written exam, MT=Midterm, SA=Written elaboration, FFST=Subject theoretical and practical work, FFA=Subject theoretical and practical work, MP=Oral exam, RE=Presentation, ÜA=Excercises, AB=Thesis

<sup>4</sup>CP=Credit Points

<sup>5</sup>VL=Lecture, SE=Seminar, UE=Recitation Section (small), PBL=Project-/problem-based Learning, PR=Practical Course, HÜ=Recitation Section (large)

<sup>6</sup>DE=German, EN=English, DE/EN=German and English

<sup>7</sup>SWS=Contact hours