

Biotechnology

Study Year 1, Academic Year 2018/19 (Mandatory Courses)

Course Code	Credits	Cycle	S.Ex. stud.	Language	Course Name	Footnote	Links	18/19 sp1					18/19 sp2					18/19 sp3					18/19 sp4				
								F	O	L	H	S	F	O	L	H	S	F	O	L	H	S	F	O	L	H	S
KBTA05	7.5	G1	-	S	Introduction to Biotechnology		KS KE U T	32	10	0	30	100															
FMAA05	15	G1	-	S	Calculus in One Variable		KS KE U W T	50	30	0	0	133	50	30	0	0	107										
KOOA20	7.5	G1	-	S	Introductory Chemistry		KS KE U W T						42	14	15	0	80										
KOOA15	7.5	G1	-	S	General Chemistry		KS KE U W T											42	28	15	0	80					
FMAA20	7.5	G1	-	S	Linear Algebra with Introduction to Computer Tools		KS KE U W T											48	24	0	0	130					
KLGA01	7.5	G1	-	S	Life Science Processes and Calculations		KS KE U W T																22	30	12	15	90
KOKA25	7.5	G1	-	S	Organic Chemistry		KS KE U W T																42	14	24	0	80

Study Year 2, Academic Year 2019/20 (Mandatory Courses)

Course Code	Credits	Cycle	S.Ex. stud.	Language	Course Name	Footnote	Links	19/20 sp1					19/20 sp2					19/20 sp3					19/20 sp4				
								F	O	L	H	S	F	O	L	H	S	F	O	L	H	S	F	O	L	H	S
FMAB30	6	G1	-	S	Calculus in Several Variables		KS KE U W T	44	16	2	0	100															
KFKA05	7.5	G1	-	S	Molecular Driving Forces 1: Thermodynamics		KS KE U W T	28	28	20	0	124															
KMBA01	7.5	G1	-	S	Microbiology		KS KE U W T						30	5	25	0	140										
KETF01	9	G2	-	S	Transport Phenomena, Basic Course		KS KE U W T						36	36	24	0	144										
KBKA10	7.5	G1	-	E	Biochemistry		KS KE U W T											30	8	40	0	120					
KFKF01	7.5	G2	-	S	Molecular Driving Forces 2: Interactions and Dynamics		KS KE U W T																28	28	20	0	124
KETF10	7.5	G2	X	E1	Separation Processes, Basic Course		KS KE U W T																22	35	15	0	128

Study Year 2, Academic Year 2019/20 (Elective Mandatory Courses)

Course Code	Credits	Cycle	S.Ex. stud.	Language	Course Name	Footnote	Links	19/20																					
								sp1	sp2	sp3	sp4																		
								F	O	L	H	S	F	O	L	H	S	F	O	L	H	S	F	O	L	H	S		
KASF01	7.5	G2	X	E1	Environmental Chemistry		KS KE U W T					54	28	0	0	80													
KASA10	7.5	G1	-	S	Inorganic Chemistry		KS KE U W T					28	28	25	0	70													

Study Year 3, Academic Year 2020/21 (Mandatory Courses)

Course Code	Credits	Cycle	S.Ex. stud.	Language	Course Name	Footnote	Links	20/21																							
								sp1	sp2	sp3	sp4																				
								F	O	L	H	S	F	O	L	H	S	F	O	L	H	S	F	O	L	H	S				
KAKF05	7.5	G2	-	S	Analytical Chemistry		KS KE U W T	30	10	24	1	150																			
FMSF70	7.5	G2	-	S	Mathematical Statistics	X	KS KE U W T	26	16	8	1	140																			
MIOA15	7.5	G1	-	S	Managerial Economics, Basic Course		KS KE U W T						54	12	9	0	125														
KETF25	7.5	G2	-	S	Reaction Engineering		KS KE U W T						28	32	8	0	132														
KBKF05	7.5	G2	-	S	Cell biology		KS KE U W T											20	8	30	0	142									
BLTF01	7.5	G2	X	E1	Unit Operations in the Biotech and Food Industry		KS KE U W T											10	14	40	7	129									
KBTF15	7.5	G2	X	E1	Bioprocess Technology	X	KS KE U W T																								
KBKF01	7.5	G2	X	E	Gene Technology		KS KE U W T																								

[FMSF70](#) Mathematical Statistics: *The course is to be studied together with MASB02*

[KBTF15](#) Bioprocess Technology: *The course is given in Swedish in study period 4 for the B program, year 3.*

Elective Courses - B

Course Code	Credits	Cycle	Year	From year	S.Ex. stud.	Language	Course Name	Footnote	Links																				
										sp1	sp2	sp3			sp4														
										F	O	L	H	S	F	O	L	H	S	F	O	L	H	S	F	O	L	H	S
KBKF10	15	G2	3 - 20/21	2	-	E1	Course in Synthetic Biology	X	KS KE U T			10	20	0	10	90	10	0	80	30	150								

[KBKF10](#) Course in Synthetic Biology: *The course is partly presented in the summer and is being examined at the end of August. 5 hp exam in June, 10 hp exam in August. Registrations will be divided to 8.5 credits in the spring and 6.5 credits in the summer.*

Bachelor's Projects - B

The list contains the bachelor's projects that are included in the B programme.

Links

Course Code	Credits	Course Name	Links
KBKL01	15	Bachelor Project in Applied Biochemistry	KS KE U W
KMBL01	15	Bachelor Project in Applied Microbiology	KS KE U W
KFKL01	15	Bachelor Project in Biophysical Chemistry	KS KE U
KBTL01	15	Bachelor Project in Biotechnology	KS KE U W
KETL01	15	Bachelor Project in Chemical Engineering	KS KE U
KLTL01	15	Bachelor Project in Food Engineering	KS KE U
KOKL01	15	Bachelor Project in Organic Chemistry	KS KE U
KAKL01	15	Bachelor Project in Technical Analytical Chemistry	KS KE U