

# Chemical Engineering

## Study Year 1 (Mandatory Courses)

Course Code	Credits	Cycle	S.Ex. stud.	Language	Course Name	Footnote	Links	08/09					
								sp4					
								F	O	L	H	S	
<a href="#">KOO101</a>	9	G1	-	S	Fundamental Chemistry		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a>						
<a href="#">FMAA01</a>	15	G1	-	S	Calculus in One Variable		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a>	42	28	0	0	81	
<a href="#">KETA01</a>	21	G1	-	S	Chemical Engineering		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a>	14	12	4	44	50	
<a href="#">FMA420</a>	6	G1	-	S	Linear Algebra		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a>						
<a href="#">KOK012</a>	9	G1	-	S	Organic Chemistry, Basic Course		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a>	26	4	36	0	30	

## Study Year 2 (Mandatory Courses)

Course Code	Credits	Cycle	S.Ex. stud.	Language	Course Name	Footnote	Links	08/09					
								sp4					
								F	O	L	H	S	
<a href="#">FMA430</a>	6	G1	-	S	Calculus in Several Variables		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a>						
<a href="#">KFK080</a>	7.5	G1	-	S	Thermodynamics		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a>						
<a href="#">KBKA05</a>	7.5	G1	-	E2	Technical Biology		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a>						
<a href="#">KETF01</a>	9	G2	-	S	Transport Phenomena, Basic Course		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a>						
<a href="#">FHL055</a>	7.5	G1	-	S	Engineering Mechanics		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a>						
<a href="#">KOO022</a>	7.5	G1	-	S	Inorganic Chemistry		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a>						
<a href="#">KFK090</a>	7.5	G2	-	S	Molecular Interactions and Dynamics		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a>	28	28	20	0	60	
<a href="#">KETF10</a>	7.5	G2	-	S	Separation Processes, Basic Course		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a>	24	36	18	24	90	

## Study Year 3 (Mandatory Courses)

Course Code	Credits	Cycle	S.Ex. stud.	Language	Course Name	Footnote	Links	08/09					
								sp4					
								F	O	L	H	S	
<a href="#">KAK016</a>	7.5	G2	-	S	Analytical Chemistry		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a>						
<a href="#">EMS086</a>	7.5	G2	-	S	Mathematical Statistics		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a>						
<a href="#">KTE023</a>	15	G2	-	S	Chemical Process and Reaction Engineering, Basic Course		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a>	0	0	86	0	40	
<a href="#">KET030</a>	7.5	G2	-	S	Heat Engineering		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a>						
<a href="#">KOO052</a>	7.5	G2	-	S	Materials and Polymer Technology		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a>	56	0	0	14	80	

### Study Year 3 (Elective Mandatory Courses)

Course Code	Credits	Cycle	S.Ex. stud.	Language	Course Name	Footnote	Links	08/09				
								sp4				
								F	O	L	H	S
<a href="#">FRT081</a>	7.5	G2	-	S	Automatic Process Control		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a>					
<a href="#">FMN130</a>	7.5	A	X	E1	Numerical Methods for Differential Equations		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a>					
<a href="#">KFK025</a>	7.5	G2	-	E2	Surface and Colloid Chemistry		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a>					
<a href="#">FMS210</a>	7.5	G2	-	S	Chemometrics		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a>					
<a href="#">KTE131</a>	7.5	G2	-	S	Loss Prevention		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a>					

### Specialisation I - Pharma

Course Code	Credits	Cycle	Mand./ Elect.		Language			Links		Footnote	sp4					
			Year	From year	S.Ex. stud.	Course Name	Footnote	F	O			L	H	S		
<a href="#">KLG027</a>	7.5	A	O	4	4	X	E1	Drug Formulation		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a>						
<a href="#">KOK085</a>	7.5	G2	O	4	4	X	E1	Medicinal Chemistry		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a>						
<a href="#">MAM242</a>	7.5	G2	V	4	4	X	E1	Aerosol Technology		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a>						
<a href="#">KFK032</a>	7.5	A	V	4	4	X	E1	Biophysical Chemistry		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a>						
<a href="#">KOK095</a>	7.5	G2	V	4	4	X	E1	Computational Chemistry and Structure Analysis		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a>						
<a href="#">KOK090</a>	7.5	A	V	4	4	X	E1	Drug Synthesis		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a>						
<a href="#">KMB031</a>	7.5	G2	V	4	4	X	E1	Quality and Product Safety		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a>						
<a href="#">KFK025</a>	7.5	G2	V	4	3	-	E2	Surface and Colloid Chemistry		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a>						
<a href="#">EMS210</a>	7.5	G2	V	4	3	-	S	Chemometrics		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a>						
<a href="#">KAK050</a>	7.5	A	V	4	4	X	E1	Chromatographic Analysis		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a>						
<a href="#">KPO010</a>	7.5	A	V	4	4	X	E	Polymer Physics		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a>						
<a href="#">KLG031</a>	15	A	V	4	4	X	E1	Drug Formulation, Project		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a>	6	14	60	0	100	
<a href="#">KOK100</a>	15	A	V	4	4	X	E1	Project in Medicinal Chemistry		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a>	10	20	80	10	100	
<a href="#">KAK070</a>	7.5	A	V	4	4	X	E1	Chromatographic Bio Analysis		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a>	25	3	25	0	147	
<a href="#">KAT080</a>	7.5	A	V	4	3	X	E2	Particle Technology		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a>	30	12	10	30	90	

## Specialisation m - Materials

Course Code	Credits	Cycle	Mand./ Elect.		Year	From year	S.Ex. stud.	Language	Course Name	Footnote	Links	sp4				
												F	O	L	H	S
<a href="#">KOO045</a>	7.5	A	O		4	4	X	E2	Materials Chemistry		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a>					
<a href="#">KPO010</a>	7.5	A	O		4	4	X	E	Polymer Physics		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a>					
<a href="#">KTE080</a>	7.5	A	V		4	4	X	E1	Polymer Chemistry		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a>					
<a href="#">FHL021</a>	7.5	G1	V		4	3	-	S	Solid Mechanics, Basic Course		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a>					
<a href="#">FAFN20</a>	15	A	V		4	4	X	E	Unifying Concepts in Nanoscience: Size Effects and Self-assembly		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a>					
<a href="#">FAFN15</a>	7.5	A	V		4	4	X	E2	Crystal Growth and Semiconductor Epitaxy		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a>					
<a href="#">KOK090</a>	7.5	A	V		4	4	X	E1	Drug Synthesis		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a>					
<a href="#">KOO065</a>	7.5	A	V		4	4	X	E2	Microscopic Characterization of Materials		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a>					
<a href="#">KFK025</a>	7.5	G2	V		4	3	-	E2	Surface and Colloid Chemistry		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a>					
<a href="#">KFK095</a>	7.5	G2	V		4	4	-	S	Molecular Spectroscopy		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a>					
<a href="#">FFFN05</a>	7.5	A	V		4	3	X	E	Nanomaterials - Thermodynamics and Kinetics		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a>					
<a href="#">KTE055</a>	7.5	A	V		4	4	-	S	Catalysis, Extended Course		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a>	36	0	17	12	140
<a href="#">KAT080</a>	7.5	A	V		4	3	X	E2	Particle Technology		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a>	30	12	10	30	90
<a href="#">KPO021</a>	7.5	A	V		4	4	X	E2	Polymeric Materials, Project		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a>	20	0	50	0	70

## Specialisation p - Process Design

Course Code	Credits	Cycle	Mand./ Elect.	Year	From year	S.Ex. stud.	Language	Course Name	Footnote	Links	sp4				
											F	O	L	H	S
<a href="#">KET050</a>	15	A	O	4	4	-	S	Feasibility Studies on Industrial Plants		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a>	0	56	0	0	100
<a href="#">KTE071</a>	7.5	A	V	4	4	X	E1	Biochemical Reaction Engineering		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a>					
<a href="#">KET040</a>	7.5	G2	V	4	4	-	S	Chemical Process Technology		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a>					
<a href="#">KAT051</a>	7.5	A	V	4	4	-	S	Separation Processes, Advanced Course		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a>					
<a href="#">FHL021</a>	7.5	G1	V	4	3	-	S	Solid Mechanics, Basic Course		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a>					
<a href="#">FRT081</a>	7.5	G2	V	4	3	-	S	Automatic Process Control		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a>					
<a href="#">KTE061</a>	7.5	A	V	4	4	-	S	Chemical Reaction Engineering, Advanced Course	X	<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a>					
<a href="#">KET010</a>	7.5	A	V	4	4	-	S	Energy and Environment		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a>					
<a href="#">FMN130</a>	7.5	A	V	4	4	X	E1	Numerical Methods for Differential Equations		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a>					
<a href="#">KTE131</a>	7.5	G2	V	4	3	-	S	Loss Prevention		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a>					
<a href="#">KETN01</a>	7.5	A	V	4	4	X	E1	Process Simulation		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a>					
<a href="#">KTE055</a>	7.5	A	V	4	4	-	S	Catalysis, Extended Course		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a>	36	0	17	12	140
<a href="#">KAT080</a>	7.5	A	V	4	3	X	E2	Particle Technology		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a>	30	12	10	30	90

[KTE061](#) Chemical Reaction Engineering, Advanced Course: *Hemtentamen*

## Elective Courses - K

Course Code	Credits	Cycle	Year	From year	S.Ex. stud.	Language	Course Name	Footnote	Links	sp4				
										F	O	L	H	S
<a href="#">GEMA30</a>	4.5	G1	2	1	-	S	Swedish for Engineers		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a>					
<a href="#">GEMA20</a>	7.5	G1	2	1	-	E	English for Engineers	X	<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a>					
<a href="#">GEMF01</a>	7.5	G2	2	2	-	S	Environmental Science		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a>					
<a href="#">GEMA05</a>	7.5	G1	2	1	-	S	French for Engineers: Language, Culture and Society, Second Course		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a>					
<a href="#">GEMF05</a>	7.5	G2	2	1	X	E	Gender in Science and Engineering		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a>					
<a href="#">GEMA25</a>	7.5	G1	2	1	-	S	German for Engineers		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a>					
<a href="#">GEMA50</a>	4.5	G1	2	1	-	S	History of Technology		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a>					
<a href="#">GEMA60</a>	7.5	G1	2	1	-	S	Law for Engineers, Introductory Course in Business Law	X	<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a>					
<a href="#">GEMA10</a>	7.5	G1	2	1	-	S	Spanish for Engineers: Language, Culture and Society, First Course		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a>					
<a href="#">ETI280</a>	6	G1	2	2	X	S	Intellectual Property Right Management (IPR)		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a>					
<a href="#">GEMA65</a>	7.5	G1	2	1	-	S	Chinese for Engineers		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a>	0	20	0	0	80
<a href="#">GEMA20</a>	7.5	G1	2	1	-	E	English for Engineers	X	<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a>	20	0	0	0	30
<a href="#">GEMA40</a>	7.5	G1	2	1	-	S	Entrepreneurship and Business Development		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a>	23	0	0	5	75
<a href="#">GEMA01</a>	7.5	G1	2	1	-	S	French for Engineers: Language, Culture and Society, First Course		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a>	0	26	0	0	60
<a href="#">GEMA60</a>	7.5	G1	2	1	-	S	Law for Engineers, Introductory Course in Business Law	X	<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a>	25	0	0	0	75
<a href="#">GEMA55</a>	6	G1	2	1	-	S	Medicine for Engineers		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a>	36	0	0	0	40
<a href="#">GEMA15</a>	7.5	G1	2	1	-	S	Spanish for Engineers: Language, Culture and Society, Second Course		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a>	0	26	0	0	60
<a href="#">GEMA45</a>	3	G1	2	1	-	S	Teaching and Learning		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a>	0	2	0	2	40
<a href="#">MIO040</a>	6	G2	3	2	-	S	Managerial Economics, Advanced Course	X	<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a>					
<a href="#">MIO012</a>	6	G1	3	2	-	S	Managerial Economics, Basic Course		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a>					
<a href="#">KOK032</a>	7.5	G2	3	3	X	E1	Environmental Chemistry		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a>					
<a href="#">FMA062</a>	7.5	G2	3	3	-	S	Applied Mathematics		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a>	28	14	0	0	58
<a href="#">FKFF01</a>	4	G2	3	3	-	E2	Atmospheric Chemistry and Physics		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a>	14	12	0	4	75
<a href="#">MIO040</a>	6	G2	3	2	-	S	Managerial Economics, Advanced Course	X	<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a>	40	14	10	0	96
<a href="#">KKK000</a>	15	A	4	4	X	E2	Advanced course in one or more subjects	X	<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a>					
<a href="#">EEM055</a>	7.5	A	4	4	X	E2	Microfluidics		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a>					
<a href="#">MTTF15</a>	5	G2	4	4	X	E2	Packaging Technology and Development		<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a>					

Course Code	Credits	Cycle		From year	S.Ex. stud.	Language		Course Name	Footnote	Links		sp4			
		Year													
<a href="#">KKK000</a>	15	A	4	4	X	E2		Advanced course in one or more subjects	X	<a href="#">KS</a> <a href="#">KE</a> <a href="#">U</a> <a href="#">W</a>					
<a href="#">KKK000</a>									X						
<a href="#">KKK000</a>									X		0	0	0	0	400

[GEMA20](#) English for Engineers: *Kursen ges två gånger per läsår.*

[GEMA60](#) Law for Engineers, Introductory Course in Business Law: *Kursen ges två gånger per läsår.*

[MIO040](#) Managerial Economics, Advanced Course: *Kursen ges två gånger per läsår.*

[KKK000](#) Advanced course in one or more subjects: *Kursen är inte knuten till någon specifik läsperiod. Uppgifterna om timmar förutsätter att kursen går över en läsperiod. Individuell studieplan ska upprättas och godkännas.*

## Degree Projects - K

The list contains the degree project courses that are included in the K programme.

### Links

Course Code	Credits	Course Name	
MAM720	30	Degree Project in Aerosol Technology	<a href="#">U</a>
KMB820	30	Degree Project in Applied Microbiology for Engineers	<a href="#">U</a>
FRT820	30	Degree Project in Automatic Control for Engineers	<a href="#">U</a>
KFK920	30	Degree Project in Biophysical Chemistry	<a href="#">U</a>
KET920	30	Degree Project in Chemical Engineering	<a href="#">U</a>
KLT920	30	Degree Project in Food Engineering	<a href="#">U</a>
KOO920	30	Degree Project in Materials Chemistry for Engineers	<a href="#">U</a>
KOK820	30	Degree Project in Organic Chemistry for Engineers	<a href="#">U</a>
KLG920	30	Degree Project in Pharmaceutical Technology	<a href="#">U</a>
KTE720	30	Degree project in Polymer Technology	<a href="#">U</a>
MIO920	30	Degree Project in Production Management	<a href="#">U</a>
KAK820	30	Degree Project in Technical Analytical Chemistry	<a href="#">U</a>
TMA820	30	Degree Project in Technology Management	<a href="#">U</a>
VVA820	30	Degree Project in Water and Environmental Engineering	<a href="#">U</a>