

# Chemical Analysis Engineering, B Sc in Engineering

180 credits

Högskoleingenjör i kemisk analysteknik

6IKEA

Valid from: 2016 Autumn semester

**Determined by**

Board of Studies for Chemistry, Biology  
and Biotechnology

**Date determined**

2016-01-19

## Entry requirements

### Degree in Swedish

Högskoleingenjörsexamen och Teknologie kandidatexamen, 180 hp

### Degree in English

Bachelor of Science in Engineering and Bachelor of Science

## Curriculum

### Semester 2 (Spring 2017)

Course code	Course name	Credits	Level	Timetable module	ECV
<b>Period 1</b>					
NKEB06	Inorganic Chemistry	6	G1X	2	C
TAIU05	Linear Algebra	6	G1X	4	C
TFYA46	Engineering Project	6*	G1X	3	C
TGTU35	Introduction to University Studies	2*	G1X	-	V
<b>Period 2</b>					
NKEB05	Analytical Chemistry T	6	G1X	2/4	C
NKEB45	Statistical Tools for Chemical Analysis	6	G1X	2/4	C
TFYA46	Engineering Project	6*	G1X	1	C
TGTU35	Introduction to University Studies	2*	G1X	-	V

### Semester 3 (Autumn 2017)

Course code	Course name	Credits	Level	Timetable module	ECV
<b>Period 1</b>					
NKEB04	Organic Chemistry 2	12	G1X	1/2/3	C
TFKI16	Application Areas to Chemical Analysis Engineering	6*	G1X	4	C
<b>Period 2</b>					
NKEB03	Analytical Chemistry S	6	G1X	1/2	C
TFKI09	Biochemistry	6	G1X	3	C
TFKI16	Application Areas to Chemical Analysis Engineering	6*	G1X	4	C

## Semester 4 (Spring 2018)

Course code	Course name	Credits	Level	Timetable module	ECV
<b>Period 1</b>					
NKEB10	Analytical Chemistry - Chromatography	6	G1X	1	C
TDDD11	Introduction to Programming	8*	G1X	4	E
TFKE43	Spectroscopy and Kinetics	6	G1X	3	E
TFKE47	Environmental Chemistry	6*	G2X	4	E
TGTU01	Technology and Ethics	6	G1X	1	E
TGTU91	Oral and Written Communication	6	G1X	2	E
TKMJ15	Environmental Management Strategies	6	G1F	3	E
<b>Period 2</b>					
TEAE01	Industrial Economics, Basic Course	6	G1X	2	C
TFMT16	Computers in Measurement Systems	6	G1X	3	C
TAIU06	Mathematical Statistics	6	G1X	4	E
TDDD11	Introduction to Programming	8*	G1X	4	E
TFKE36	Biochemistry 2	6	G2X	1/4	E
TFKE47	Environmental Chemistry	6*	G2X	1	E
THIU01	English	4	G1X	1	E
TPTE06	Industrial Placement	6	G1X	-	E
TSRT04	Introduction in Matlab	2	G1X	1	E

## Semester 5 (Autumn 2018)

Course code	Course name	Credits	Level	Timetable module	ECV
<b>Period 1</b>					
NKEC16	Organic Analytical Chemistry	12	G2X	1/3	C
TAIU08	Calculus in Several Variables	6	G1X	3	E
TDDD87	Programming and Problem Solving	6	G1X	2	E
TEIO20	Entrepreneurship and New Business Development	6*	G2X	3	E
TFKI92	Forensic Biochemistry	6*	G1X	4	E
TSIU61	Automatic Control	6	G1X	2	E
TSRT04	Introduction in Matlab	2	G1X	-	E
<b>Period 2</b>					
TFKI19	Project in Chemical Analysis Engineering	6	G2X	1/2	C
NKEB02	Physical Chemistry, Thermodynamics	6	G1X	3	E
NKEC22	Medicinal Natural Products	6	G2X	2/4	E
NVFA09	Pharmacology	6	G2X	3	E
TAMS11	Probability and Statistics, first course	6	G2X	4	E
TEAE09	Environmental Law	6	G1X	4	E
TEIO20	Entrepreneurship and New Business Development	6*	G2X	4	E
TEIO29	Leadership and Organisation	6	G1X	4	E
TFKI92	Forensic Biochemistry	6*	G1X	4	E
TGTU49	History of Technology	6	G1X	3	E
TKMJ24	Environmental Engineering	6	G1N	3	E

## Semester 6 (Spring 2019)

Course code	Course name	Credits	Level	Timetable module	ECV
<b>Period 1</b>					
TFKI11	Chemometrics	3	G2X	2	C
TMQU46	Quality Management	6	G2X	4	C
TFKI23	Forensic Chemistry	6	G2X	3	E
TKMJ10	Industrial Ecology	6	A1X	1	E
TSIU04	Automatic Control, Advanced Course	4	G2X	4	E
<b>Period 2</b>					
TQXX11	Degree project - Bachelor's Thesis	16	G2X	-	C

ECV = Elective / Compulsory / Voluntary

\*The course is divided into several semesters and/or periods