

# Chemical Analysis Engineering, B Sc in Engineering

180 credits

Högskoleingenjör i kemisk analysteknik

6IKEA

Valid from: 2015 Spring semester

**Determined by** 

Board of Studies for Chemistry, Biology and Biotechnology

**Date determined** 

### **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 4 (Spring 2017)

Course name	Credits	Level	Timetable module	ECV
Analytical Chemistry - Chromatography	6	G1X	1	С
Introduction to Programming	8*	G1X	4	E
Spectroscopy and Kinetics	6	G1X	3	E
Environmental Chemistry	6*	G2X	4	E
Technology and Ethics	6	G1X	1	E
Oral and Written Communication	6	G1X	2	E
Environmental Management Strategies	6	G1X	3	E
Industrial Economics, Basic Course	6	G1X	2	С
Computers in Measurement Systems	6	G1X	3	С
Mathematical Statistics	6	G1X	4	E
Introduction to Programming	8*	G1X	4	E
Biochemistry 2	6	G2X	1/4	E
Environmental Chemistry	6*	G2X	1	E
English	4	G1X	1	E
Industrial Placement	6	G1X	-	E
Introduction in Matlab	2	G1X	1	E
	Analytical Chemistry - Chromatography Introduction to Programming Spectroscopy and Kinetics Environmental Chemistry Technology and Ethics Oral and Written Communication Environmental Management Strategies  Industrial Economics, Basic Course Computers in Measurement Systems Mathematical Statistics Introduction to Programming Biochemistry 2 Environmental Chemistry English Industrial Placement	Analytical Chemistry - Chromatography 6 Introduction to Programming 8*  Spectroscopy and Kinetics 6 Environmental Chemistry 6*  Technology and Ethics 6 Oral and Written Communication 6 Environmental Management Strategies 6  Industrial Economics, Basic Course 6 Computers in Measurement Systems 6 Mathematical Statistics 6 Introduction to Programming 8* Biochemistry 2 6 Environmental Chemistry 6* English 4 Industrial Placement 6	Analytical Chemistry - Chromatography 6 G1X Introduction to Programming 8* G1X Spectroscopy and Kinetics 6 G1X Environmental Chemistry 6* G2X Technology and Ethics 6 G1X Oral and Written Communication 6 G1X Environmental Management Strategies 6 G1X Industrial Economics, Basic Course 6 G1X Computers in Measurement Systems 6 G1X Mathematical Statistics 6 G1X Introduction to Programming 8* G1X Biochemistry 2 6 G2X Environmental Chemistry 6* G2X English 4 G1X Industrial Placement 6 G1X	Analytical Chemistry - Chromatography 6 G1X 1 Introduction to Programming 8* G1X 4 Spectroscopy and Kinetics 6 G1X 3 Environmental Chemistry 6* G2X 4 Technology and Ethics 6 G1X 1 Oral and Written Communication 6 G1X 2 Environmental Management Strategies 6 G1X 3  Industrial Economics, Basic Course 6 G1X 3  Mathematical Statistics 6 G1X 4 Introduction to Programming 8* G1X 4 Biochemistry 2 6 G2X 1/4 Environmental Chemistry 6* G2X 1 Industrial Placement 6 G1X 1



#### Semester 5 (Autumn 2017)

Course code	Course name	Credits	Level	Timetable module	ECV
Period 1					
NKEC16	Organic Analytical Chemistry	12	G2X	1/3	С
TAIU08	Calculus in Several Variables	6	G1X	3	Е
TDDD87	Programming and Problem Solving	6	G1X	2	Е
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
Period 2					
TFKI19	Project in Chemical Analysis Engineering	6	G2X	1/2	С
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	Е
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	G1F	3	E
TKMJ24	Environmental Engineering	6	G1X	3	Е



#### Semester 6 (Spring 2018)

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



ECV = Elective / Compulsory /Voluntary
\*The course is divided into several semesters and/or periods