

Programme

Qualification awarded

Bachelor of Science

Length of the programme

48 months

ECTS credits

240

Level of qualification

Bachelor

Mode

Full-time

Language

Dutch, with parts in English

School

Institute for Life Science & Technology

Locations

Groningen

Chemistry

Profile of the programme

No content available

Learning outcomes

Graduates in Chemistry are employed as research technicians in chemical laboratory of industries, universities and hospitals. Main subject areas are: organic chemistry, analytical chemistry and polymer chemistry & materials.

Graduates of the Bachelor of Chemistry programme can demonstrate that s/he has achieved the ability to:

Perform research in the Chemistry domain which either helps to solve a problem or develop a method, or provides a greater understanding of a subject within his specific working environment, by:

- setting up and performing complex (bio) organic synthesis;
- developing and validating an instrumental and/or analytical (bio) chemical determination;
- having insight into the goal of the research and the applied methods;
- independently selecting and using relevant literature.

Conduct experiments in the Chemistry domain in a way that ensures that demonstrably reliable results are obtained, by:

· independently designing a work plan and taking in consideration: time-schedule, feasibility,

methods and techniques;

- executing a work plan effectively and efficiently and adapting, if necessary;
- conducting the experiments and analyses responsibly;
- · obtaining reliable results;
- evaluating and interpreting results showing insight into the significance of results and the

consequence of deviations in the results;

- reporting results according to the laboratory standard;
- combining results logically and drawing conclusions showing critical interpretation and

problem solving capacities.

Develop, implement and maintain a management system or parts thereof to ensure that the system conforms to the relevant legislation and quality standards and the organisation's norms and values, by:

· administrating results and managing samples.

Provide properly substantiated advice on the design, improvement or use of products, processes and methods and effects profitable transactions involving products or services within the Chemistry domain, by

 advising considering practical work, formulating proposals for applicable methods and techniques and recommendations for future research.

The graduate demonstrates various generic competences by:

- taking initiatives to contact colleagues in order to exchange information and communicate conclusions to different levels in the organisation;
- contributing to the guidance and/or development of colleagues;
- showing professional attitude by being a motivated, flexible and valuable colleague;
- interpreting professional and ethical dilemmas and making decisions accordingly;
- critically evaluating own points of view and actions and taking responsibility for them;
- improving his own performance by self-reflection and receiving feedback.

Programme

Chemistry	credits
	60
☐ Theme 1 - Nutrition	15
© CCVP15PR1 - Practical Assignment	3
CCVP15VEILIG - Safety	1

	© CCVP4STA1 - Statistics 1	1
	LSVP15BVWIS - Mathematics basic skills	1
	© CCVP2CHV - Chemistry	4
	© CCVP0CHB - Chemical Bonding	3
	LSVP16PRE - Presentation	1
	LSVP15SVNED - Basic Dutch Skills	0
_	LSVP7STB1A - Academic Counselling/Introduction Term 1	1
П	Theme 2 - Introduction Organic Chemistry	15
	CCVP18PR2 - Practical Assignment	5 1
	LSVP15RAP - Report CCVP15CPT - Chemical Process Technology	2
	© CCVP15TT - Technical Drawing	1
	© CCVP5CAN1 - Chemical Analysis 1	2
	© CCVP3SML1 - Fluid Mechanics	3
	□ LSVP7STB1B - Academic Counselling Term 2	1
	Theme 3 - Water analysis	15
	□ CHVP18PR3 - Laboratory	5
	© CHVP3BCH1 - Biochemistry 1	3
	© CCVP4STA2 - Statistics 2 (CH)	2
	CCVP8CAN2 - Chemical Analysis 2	2
	CCVP18CBO2 - Chemical Bonding & Organic Chemistry 2	2 1
П	LSVP7STB1C - Academic Counselling Term 3	
Ц	Theme 4 - Chromotography GHVP18PR4 - Laboratory theme 4	15 5
	© CCVP18WEL - Heat & Electricity Transport	3
	□ CHVP4CPT1 - Software Applications 1	1
	© CCTP1WIS - Mathematics C / CT	3
	© CHVP17CAN3 - Chemical Analysis 3	2
	LSVP7STB1D - Academic Counselling Term 4	1
Ye	ar 2	60
	Theme 5 - Synthesis and Analysis 1	15
	© CHVH3TH5P - Laboratory theme 5	6
	CHVH3IAN1 - Instrumental Analysis 1	3
	CHVH22ORGCHEMIE1 - Organic Chemistry 1 CHVH17CPT1 - Software Applications 2	3 2
	CHVH17OWT1 - Downstream Processes	1
П	Theme 6 - Synthesis and Analysis 2	15
П	© CHVH3TH6P - Laboratory theme 6	5
	© CHVH3IAN2 - Instrumental Analysis 2	3
	© CHVH3OCH2 - Organic Chemistry 2	3
	© CHVH16STA3 - Statistics 3	3
	LSVH7STB2A - Academic Counselling Year 2 - Part 1	1
	Theme 7 - Instrumental Analysis & Fysical Chemistry 1	15
	© CHVH3TH7P - Laboratory theme 7	6
	CHVH3FCH1 - Thermodynamics	3
	CHVH18POLY - Polymer Chemistry 1 CHVH3CMT1 - Chemometrics 1	3
П		3 1 E
П	Theme 8 - Instrumental Analysis & Fysical Chemistry 2 GHVH3TH8P - Laboratory theme 8	15 5
	CHVH3BCH1 - Biochemistry 2	3
	© CCVH5PKC2 - Colloid Chemistry	3
	© CHVH3FCH2 - Reaction Kinetics	3
	LSVH7STB2B - Academic Counselling Year 2 - Part 2	1
	ar 3	60
П	Theme 9 - Complex Synthesis and Analysis 1	15
	CHVH3TH9P - Laboratory theme 9 CHVH8SMT1 - Separation Methods 1	7 3
	CHVH18SCT1 - Spectroscopic Techniques 1	4
	LSVH7STB3A - Academic Counselling Year 3 - Part 1	1
	Theme 10 - Complex Synthesis and Analysis 2	15
_	© CHVH15PRA&O - Laboratory Analytical & Organic Chemistry	7
	CHVH0ORC3 - Organic Chemistry 3	3
	© CHVH18OWT2 - Downstream Processes 2	3
	© CHVH7SCT2 - Spectroscopic Techniques 2	2
0	Electives	30
Υe	ar 4	60
	Internship placement	30
⊔	© CHVH19STAGE - Practical Learning Period	28
	LSVH15KWALZ - Quality Assurance	1
	LSVH15ARBO - Health & Safety	1

☐ Final Internship Project 30
☐ CHVH15AFST - Final Project 30

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