Course: The Chemist and the Chemical Technologist — credits: 5

Course code	CCVP23CHEMICUS
Name	The Chemist and the Chemical Technologist
Study year	2023-2024
ECTS credits	5
Language	Dutch, with parts in English
Coordinator	I.J. Robin

Modes of delivery	Assignment Lecture Peer feedback Practical / Training Project-based learning Tutorial
Assessments	Laboratoriumveiligheid - Computer, organised by STAD examinations Project - Other assessment

Learning outcomes

You portray the study and profession of a chemist and chemical technologist (portfolio and group poster) (PI = Professional Identity).

You work safely in a lab room and are aware of safety rules and collection of chemical waste (multiple-choice test and practical).

You carry out a project in a group (PI = Professional Identity) according to the scientific method.

You make a scientific poster in a group and give, receive and process feedback. (PV = Personal Skills & SoCoVa).

You perform a simple synthesis with a group and analyse the composition, purity and work on the following aspects: product analysis, mass/energy balance, cost price calculation and process sustainability (Practicum and poster).

You gain insight into sustainability in society and in the chemical field.

You find your way within Hanze University, the digital learning environment and get to know your mentor and fellow students through introductory activities and joint mentor lessons, and you take responsibility for your study progress and reflect on it through a personal mentor conversation (PO = personal development).

DAS competencies

Competency	Level (I-IV)
Research	I
Experimentation	I
Development	
management	I
Advise	
Instruction	
Leadership	
Self-management	I

Content

During the introductory course the chemist and the chemical technologist, you get a picture of the profession of a chemist and a chemical technologist. So you will learn all kinds of things about the work you can do after completing your studies in Chemistry or Chemical Engineering here at Hanze University. Thus, you will discover that Chemistry is a subject with various components, such as making (synthesising) substances in a laboratory, analysing a made substance and calculating the efficiency of making a substance in different ways. These are all components that you will perform or experience yourself in project groups during this introductory course. Therefore, you will also be taught how to cooperate well with others. Collaboration will also play a role later on during your profession. Finally, we will look at how you, as a chemist or chemical technologist, can make an important contribution to chemical product development and sustainability. In short: in this introductory course, you will find out that chemistry is fun, that you can become good at it, earn money and make an important contribution to society!

Included in programme(s)

Chemical Engineering
Chemistry

School(s)

Institute for Life Science & Technology

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