

MASTER OF SCIENCE IN CHEMICAL ENGINEERING

120 ECTS CREDITS - LANGUAGE: ENGLISH

The Faculty of Engineering and Architecture (FEA) offers most of the Master's programmes in Engineering in English. This underlines the international ambition of the faculty, as well as the importance of international education and multiple language skills for students.

WHAT

The Master of Science in Chemical Engineering offers students a comprehensive training to master the fundamental chemical engineering principles. A chemical engineer has to ensure the design, construction, improvement and maintenance of installations and equipment in the chemical industry. As a graduate in chemical engineering you will be skilled to innovate, to manage an entire installation as well as to acquire a detailed insight in the performance of its individual parts and their interaction. This requires a combination of abstract reasoning but also of common sense, aiming at a practical implementation. Of course, you will also be trained to be involved in and lead research and development.

STRUCTURE

The Master of Science in Chemical Engineering consists of 2 phases: a first one of 3 years, resulting in the academic degree of bachelor of science and a subsequent one of 2 years to obtain the master's degree in chemical engineering.

LABOUR MARKET

As a graduate you will typically be employed in the chemical process industry. In addition, other companies where chemical transformations are implemented in the manufacturing process, such as the polymer, textile, food, pharmaceutical and environmental sanitation industry, offer various career opportunities. A master in chemical engineering typically supervises a team responsible for (chemical) production and focuses on the improvement and innovation of processes and products. Other opportunities appear in engineering companies where you will be responsible for the design, construction and start-up of new production units. Furthermore, equipment design and construction companies employ many chemical engineers. Last but not least, universities and research institutes also recruit chemical engineers. In short, a master in chemical engineering has a bright future in the modern, diverse and international chemical industry which is strongly anchored in (the extended neighbourhood of) our region.

TOELATINGSVOORWAARDEN VOOR HOUDERS VAN EEN VLAAMS DIPLOMA

1 Rechtstreeks:

- Bachelor in de ingenieurswetenschappen, afstudeerrichting: chemie en materialen
- Bachelor in de ingenieurswetenschappen, afstudeerrichting: chemische technologie
- Bachelor in de ingenieurswetenschappen, afstudeerrichting: chemische technologie en materiaalkunde
- Bachelor in de ingenieurswetenschappen, afstudeerrichting: materiaalkunde
- Bachelor in de ingenieurswetenschappen: chemische technologie en materiaalkunde

2 Na het met succes voltooiën van een voorbereidingsprogramma:

MIN 30 SP - MAX 90 SP

- Bachelor in de bio-ingenieurswetenschappen
- Bachelor in de biochemie en de biotechnologie
- Bachelor in de chemie
- Bachelor in de fysica
- Bachelor in de fysica en de sterrenkunde
- Bachelor in de industriële wetenschappen, afstudeerrichting: chemie
- Bachelor in de industriële wetenschappen, afstudeerrichting: elektromechanica
- Bachelor in de industriële wetenschappen: chemie
- Bachelor in de industriële wetenschappen: elektromechanica
- Bachelor in de industriële wetenschappen: milieukunde
- Bachelor in de industriële wetenschappen: textieltechnologie
- Bachelor in de ingenieurswetenschappen (KMS)
- Een diploma van een opleiding 'Bachelor of Science in de ingenieurswetenschappen' (met inbegrip van 'architectuur')

aantal studiepunten te bepalen door de faculteit

- Bachelor in de bio-industriële wetenschappen
- Bachelor of Engineering Technology, afstudeerrichting: Chemical Engineering
- Bachelor of Engineering Technology, afstudeerrichting: Electromechanical Engineering

3 Rechtstreekse toelating voor het volgen van een brugprogramma (horizontale instroom):

- a opleidingen nieuwe structuur:
- Master in de industriële wetenschappen: chemie
 - Master of Chemical Engineering Technology
- b opleidingen oude structuur:
- Industrieel ingenieur in chemie

ADMISSION REQUIREMENTS FOR INTERNATIONAL DEGREE STUDENTS

Information on admission requirements and the administrative procedure for admission on the basis of a diploma obtained abroad, can be found on the following page: www.ugent.be/admission

Additional information:

Students who wish to enrol for the Master of Science in Chemical Engineering can enter the programme without any prerequisites if they hold the following diploma: an academic diploma of Bachelor (or Master) of Science in Engineering (university level, minimum three years), with the main subject in Chemical Engineering and/or Materials Science or an equivalent to this. Admission can only be granted after an individual application procedure. The Study Programme Committee will make the final decision whether to accept the application or not. The Study Programme Committee can decide that students need to follow a preparatory course or an individual master's programme, for instance for students who hold another diploma of Bachelor or Master.

The language requirements for this study programme can be found on: www.ugent.be/languagerequirements

PRACTICAL INFORMATION

Study programme

studiekiezer.ugent.be/master-of-science-in-chemical-engineering-en/programma

Information sessions

Graduation Fair

afstudeerbeurs.gent/en/students/further-studies

Open Days

30 April 2021 - - virtual tours

Application deadline

For students who **need a visa**: 1st of March

For students who **do not need a visa**: 1st of June

Read more

Tuition fee

More information is to be found on: www.ugent.be/tuitionfee

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Contact (for international degree students)

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