# MASTER OF SCIENCE IN CHEMICAL ENGINEERING

MINORS: OPERATIONS MANAGEMENT - BIOSYSTEMS - ENVIRONMENT AND SUSTAINABLE DEVELOPMENT

120 ECTS CREDITS – LANGUAGE: ENGLISH – DEGREE: MASTER OF SCIENCE



## COURSE CONTENT

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

## COURSE 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.

## CAREER PERSPECTIVES

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 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 a 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.

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## TOELATINGSVOORWAARDEN VOOR HOUDERS VAN EEN VLAAMS DIPLOMA

**Rechtstreeks:**
- Ba ingenieurswetenschappen: chemische technologie en materiaalkunde
- Ba ingenieurswetenschappen, afstudeerrichting chemische technologie
- Ba ingenieurswetenschappen, afstudeerrichting materiaalkunde
- Ba ingenieurswetenschappen, afstudeerrichting: chemie en materialen

**Rechtstreeks:** (naar brugprogramma - 120 studiepunten)
- Ma industriële wetenschappen: chemie
  *opleiding(en) oude structuur:*
  - industrieel ingenieur chemie

**Via voorbereidingsprogramma:** (max. 90 studiepunten)
- (andere) Ba ingenieurswetenschappen (incl. Ba ingenieurswetenschappen: architectuur)
- Ba bio-ingenieurswetenschappen
- Ba fysica en sterrenkunde
- Ba fysica
- Ba chemie
- Ba biochemie en biotechnologie
- Ba biochemie
- Ba industriële wetenschappen:
  - chemie
  - elektromechanica
  - afstudeerrichting elektromechanica
  - milieukunde
  - textieltechnologie
- Ba ingenieurswetenschappen (KMS)

**TAAL**
Je voldoet aan de taalvoorwaarden op basis van je Vlaams diploma.

## PRAKTISCHE INFORMATIE

**Studieprogramma:**
**https://studiegids.ugent.be**
> faculteiten > opleidingstypes > ga naar de opleiding van je keuze

**Alternatieve trajecten**
Meer informatie over voorbereidings- en brugprogramma's op www.ugent.be/ea
volg > alles voor toekomstige studenten > voor wie al een diploma heeft

**Infomomenten**
**Masterbeurs**
www.ugent.be/masterbeurs
**Opleidingsgebonden infosessie**
19 april 2017 - 17 u.-19 u. doorlopend, Campus Ufo, Ufo, Sint-Pietersnieuwstraat 33 - Foyer
www.ugent.be/nl/studeren/masteropleidingen

**Contact**
Trajectbegeleiding:
studietrajectplateau.ea@ugent.be

**Meer info**
Afdeling Studieadvies – Campus Ufo, Ufo,
Sint-Pietersnieuwstraat 33, 9000 Gent, T 09 331 00 31
studieadvies@ugent.be – www.ugent.be/studieadvies

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## ADMISSION REQUIREMENTS FOR INTERNATIONAL DEGREE STUDENTS

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 with another diploma of Bachelor or Master.

### LANGUAGE

More information regarding the required knowledge of English:
www.ugent.be/languagerequirements

## PRACTICAL INFORMATION

### Study programme

www.ugent.be/coursecatalogue
> by Faculty > Programme types > select your programme

### Application deadline for international students

- for students who need a visa: 1st of March
- for students who do not need a visa: 1st of June

www.ugent.be/deadline

### Enrolling institution

Ghent University

### Tuition fee

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

**Contact**
Faculty of Engineering and Architecture
International Relations Officer – Degree students
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