

Advanced Master in Brewing Engineering

[60 crédits]



Advanced Master's Degree in Brewing Engineering

The world's first university French-language brewing course trains and prepares students for a career in the brewing industry

Programme details: www.uclouvain.be/en-prog-bras2mc	Campus : Louvain-la-Neuve	Daytime schedule
Duration: one year	Language of instruction: French	Activities in English: YES
		Internships: YES

The programme imparts the multidisciplinary knowledge necessary for students to gain a comprehensive understanding of the entire brewing process. The course emphasises the fundamentals of chemistry, biochemistry and brewing microbiology as an essential basis for optimal process utilization. The diversity of participating professors, whose university and/or industry careers are international in scope, guarantees an array of complementary approaches. Another major asset is the programme's placement of students in a laboratory where they make multiple outside contacts and experience the cutting edge of brewing research. Completing a research internship sponsored by an industrialist, visiting companies and sharing experiences with students of diverse origins allow students to settle on a career path leading to the fulfilment of their goals.

PROGRAMME	CRÉDITS	
MANDATORY COURSES	4	Malt Biochemistry and Technology
	5	Hop Chemistry and Technology for Wort Boiling and Dry-hopping
	4	Brewing Fermentation Genetics, Biochemistry and Technology
	4	Organoleptic and Microbiological Qualities of Beer and Wine
	5	Special Focus on Recent Brewing Developments
	3	Food Chemistry
	27	Internship - Dissertation
ELECTIVES	5	Food Microbiology
	3	Technological and statistical quality control
	3	Surface and colloid chemistry
	5	Physiological and nutritional biochemistry

Career prospects

A resurgence in the brewing sector has been driven in part by the creation of a large number of 'craft breweries' throughout the world, but also by the genuine need of large multinationals to find qualified staff. The master's degree opens doors to the brewing industry at the level of large multinational research and development departments as well as of production and technical management in breweries of various sizes. The brewery is probably one of the most complete food industry, performing an extensive sequence of thermal, separation

and fermentation processes. The versatility of our graduates makes them particularly attractive to the many other agri-food industries that frequently approach them.

Your skills and knowledge upon earning the master's degree

- You will be an expert in the field of brewing engineering, able to diagnose and solve problems related to malting, mashing, boiling, fermentation and beer filtration.
- You will have broadened your knowledge and skills in order to make diagnoses and implement solutions in a professional context, being able to self-assess and communicate by adapting to others.
- Multipurpose and multidisciplinary, the advanced master's degree emphasises acquiring knowledge and skills by

combining theory and technique. It will make you an expert who masters a variety of scientific and technological tools, empowering you to take effective action in a broad range of professional situations.

Admission requirements

Holders of a Belgian university master's degree in engineering, chemical engineering, bioindustrial engineering, agricultural engineering, bioengineering, or civil engineering, and holders of a degree recognised as equivalent by the Faculty of Bioengineering, are granted direct admission to this programme.

For all other academic degrees, an application for admission must be submitted online to the Admissions Office, which will transfer the application to the Faculty of Bioengineering.

Admission via 'Accreditation of Prior Experience' (Valorisation des acquis de l'expérience, VAE) is also possible, depending on your prior experience.

www.uclouvain.be/en-prog-bras2mc-cond_adm

UCLouvain application procedure

Whether you are a Belgian or international student, the application procedure begins online at www.uclouvain.be/enrolment.

IF YOU DO NOT HOLD BELGIAN NATIONALITY, PLEASE RESPECT THE FOLLOWING DEADLINES:

- 30 April: online application deadline for non-EU nationals who do not reside in Belgium.
- 31 August: online application deadline for EU nationals who do not reside in Belgium.
- 15 September: deadline for both online application and receipt of application files for applicants of any nationality who reside in Belgium.

www.uclouvain.be/enrolment





Why choose UCLouvain to pursue a master's degree in brewing engineering?

TO POSITION YOURSELF INTERNATIONALLY

UCLouvain is the world's first university French-language offering a brewing programme. It has been developed in synergy with other international courses. In addition, the programme incorporates a two-week international exchange, with the Université de Bourgogne Franche-Comté, which aims to illustrate the similarities and differences between beer and wine.

FOR THE EXCELLENCE OF ITS COURSEWORK

The programme is taught by professors with demonstrable university and/or industrial experience at the international level, which guarantees genuine complementarity in their educational approaches.

The master's degree meets market needs in terms of both theory and practical training, by taking into account the latest industry advances.

FOR ITS OPENNESS TO THE PROFESSIONAL WORLD

Via the possibility to pursue an internship sponsored by an industrialist or/and to visit numerous companies, the master's programme offers you the opportunity to firmly position yourself in your chosen career path.

AND ALSO

- to join a prestigious, internationally renowned university;
- to benefit from the Louvain-la-Neuve campus, which offers the ideal environment for an enriching student lifestyle and that facilitates cultural activities, international exchange and engagement.

This master's programme is organised with the support of AB-InBev. **ABInBev**



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Studying at UCL

Centre d'information et d'orientation (CIO)
www.uclouvain.be/cio

Register at UCL

Service des inscriptions (SIC)
www.uclouvain.be/enrolment

Financial assistance

Service d'aide aux étudiants (AIDE)
www.uclouvain.be/aide

Accommodation

Service des logements (LOGE)
www.uclouvain.be/accommodation



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Published by : Philippe Baret.

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Photos : Jacky Delorme, Alexis Haulot, Reporters, DR, istock, .