

# INTERNATIONAL MASTER OF SCIENCE IN AGRO- AND ENVIRONMENTAL NEMATOLGY

International Course Programme (ICP): Master's programme organised by Ghent University and supported by the Flemish Interuniversity Council (VLIR-UOS)

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

## COURSE CONTENT

Nematodes or roundworms are everywhere. They are among the most harmful organisms of crops, especially in the tropics, but on the other hand some species are natural antagonists that can be used in bio-control programmes against pest insects. Because of their ubiquitous presence, overwhelming densities and diversity (sometimes compared to insects) the free-living nematodes are an ideal tool for biodiversity studies. They are used as bio-indicators of pollution in both terrestrial and aquatic environments.

The programme of the International Master of Science in Agro- and Environmental Nematology is unique and attracts students from all over the world. It deals with fundamental as well as applied aspects of nematology and concerns all groups of nematodes in all possible environments: natural soils, agricultural soils, aquatic sediments of freshwater, brackish or marine habitats. It fulfills the international need for training highly qualified nematologists with a multidisciplinary knowledge in the diverse fields of nematology and related sciences. This international multicultural English course programme is multidisciplinary in its approach both within the field of biology and agro-engineering.

## COURSE STRUCTURE

The programme consists of compulsory courses focused on nematology for 60 credits during the first master year. In the second master (third semester) year students can broaden their field with many elective courses offered by Ghent University and foreign (partner) universities.

Students choose between three tracks (30 credits):

- **UGent track**
- **Kenya track** - International Capacity Building & Sustainability. The programme at IITA-ICIPE Nairobi (Kenya) includes a Basic Nematology Crash Course (BNCC) for local students and a mobility track for the MSc Nematology students. As part of their curriculum, the latter will be able to undertake professional internships in Kenya and the wider region, follow a course focused on specific developmental needs and will be involved in the training of local students during the BNCC.
- **International Mobility track**, keeping open the option for Erasmus+ application .

In the fourth semester students will perform the master's dissertation for 30 credits.

## CAREER PERSPECTIVES

The International Master of Science in Agro- and Environmental Nematology prepares students for a career in very diverse fields and environments. Their work can vary between teaching, research in universities and laboratories in governmental institutions and industry and providing advice services to the general public, farmers or governmental policies. The multidisciplinary approach allows nematologists to be active both in the field of biology and agro-engineering and medicine, work in sophisticated laboratories (advanced molecular and genetic research) as well as in suboptimal conditions where there is hardly any basic equipment as in some developing countries.

Main trumps are: in-depth and broad scientific knowledge, capacity to analyse and solve problems, write research proposals, good communication skills and contacts with national and international nematologists and centres of nematological research and applications or related fields.

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## TOELATINGSVOORWAARDEN VOOR HOUDERS VAN EEN VLAAMS DIPLOMA

### Rechtstreeks:

- Ba biologie
- Ba biochemie en biotechnologie
- Ba biomedische wetenschappen
- Ba diergeneeskunde
- Ba in het studiegebied Toegepaste biologische wetenschappen

### Na geschiktheidsonderzoek:

- andere academische bachelors in aanverwante studiegebieden

### 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

### Infomomenten

#### Masterbeurs

[www.ugent.be/masterbeurs](http://www.ugent.be/masterbeurs)

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## ADMISSION REQUIREMENTS FOR INTERNATIONAL DEGREE STUDENTS

Applicants must hold a university degree equivalent to at least 3 years of university studies in zoology, botany, agriculture, environmental sciences or a closely related field. Each application file will be screened by the Nematology Education Committee and must be approved by the Faculty and the Rector of UGent.

### LANGUAGE

More information regarding the required knowledge of English:  
[www.pinc.ugent.be](http://www.pinc.ugent.be)

## PRACTICAL INFORMATION

### Study programme

[www.ugent.be/coursecatalogue](http://www.ugent.be/coursecatalogue)

> by Faculty > Programme types > select your programme

### Application deadline for international degree students

International Course Programme (VLIR-UOS ICP programme).

Application for enrolment and scholarships is directly through the secretariat of the programme.

[www.pinc.ugent.be](http://www.pinc.ugent.be)

### Enrolling institution

Ghent University

### Tuition fee

[www.ugent.be/tuitionfee](http://www.ugent.be/tuitionfee)

This programme is supported by (VLIR-UOS and other) scholarships.  
More information at [www.pinc.ugent.be](http://www.pinc.ugent.be)

### Contact

Ghent University – Faculty of Sciences – Department of Biology  
Campus Ledeganck, K.L. Ledeganckstraat 35, B-9000 Gent  
Inge Dehennin

[inge.dehennin@ugent.be](mailto:inge.dehennin@ugent.be) - T +32(0)9 264 52 16

[www.pinc.ugent.be](http://www.pinc.ugent.be)

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