

SAIV2M

2016 - 2017

Master [120] in Agriculture and Bio-industries

At Louvain-la-Neuve - 120 credits - 2 years - Day schedule - In frenchDissertation/Graduation Project : **YES** - Internship : **NO**Activities in English: **YES** - Activities in other languages : **NO**Activities on other sites : **NO**Main study domain : **Sciences agronomiques et ingénierie biologique**Organized by: **Faculté des bioingénieurs (AGRO)**Programme code: **saiv2m** - Francophone Certification Framework: 7**Table of contents**

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SAIV2M - Introduction

Introduction

Introduction

This **Master in Agriculture and Bio-industries** focuses on policy analysis related to agricultural, food and environmental issues to excellent students from all over the world. This Master's programme responds to the increasing need to better understand and anticipate the various and often complex socio-economic and environmental effects of these policies either in a functioning market economy as in the European Union or in economies in a development or transition phase world-wide.

By the end of this Master's programme, the graduate student should be able to design and perform Agricultural, Food and Environmental Policy Analysis (**AFEPA**) in various agro-climatic and technological situations and socio-economic and institutional contexts.

Your profile

This Master's programme is for you if you are interested in:

- the relevance, diversity and career opportunities contained in this Master's programme,
- the international feature of the programme, attracting students with diverse backgrounds from all over the world and preparing professionals for a future global job market,
- the opportunity to study in two different partner universities in two European countries and acquire a double or joint Master's degree.

Your future job

Graduates from this Master's programme are well qualified to take responsibilities in international, national and regional agencies, non-governmental organisations, consultancy firms, professional organisations and private companies with a focus in policy design, analysis and implementation. Because of the research orientation of this Master's programme, they are also well prepared for doctoral studies.

Your programme

This Master's programme is structured in four blocks of teaching and learning activities totalling 120 ECTS credits:

1. A core set of compulsory learning activities for 40 ECTS credits (Master's thesis, two summer schools)
2. A professional focus of compulsory courses for 30 ECTS credits (microeconomic theory, agricultural and trade policy, quantitative methods)
3. An option with optional courses for 30 ECTS credits that can be grouped into five subject areas:
 - i. agri-food and trade policy (at UCL and partner universities)
 - ii. development policy at UCL (at UCL and partner universities)
 - iii. environmental and natural resource policy (at partner universities)
 - iv. agribusiness and market analysis (at partner universities)
 - v. market and consumer research (at partner universities)
4. A set of supplementary courses, including a language course, for 20 ECTS credits.

This Master's programme is also jointly organised with three other European main partner universities: the Rheinische-Friedrich-Wilhelms Universität Bonn (UBonn) in Germany, the Swedish University of Agricultural Sciences (SLU) in Sweden, and the Università Cattolica del Sacro Cuore (UCSC) in Milano, Italy. The partnership also includes three associated partners: the Pontificia Universidad Católica (PUC) in Chile, the University of Alberta (UAlberta) in Canada and the Universitat Politècnica de Catalunya (UPC) in Spain where some ECTS credits can also be earned. These seven partner universities are recognised worldwide for the quality of their educational programme and scientific achievements in the AFEPA field. They together organise the inter-university AFEPA programme (see www.afepa.eu).

If selected, your participation in this inter-university AFEPA programme can lead to the Master's degree in Agriculture and Bio-industries of UCL jointly to the equivalent Master's degree of one of the other three main partner universities if a minimum of 48 ECTS credits are earned at that main partner university. To know more about it, see the admission, mobility and Master's degree tabs at www.afepa.eu.

The language of instruction and examination is English for all the courses at SLU, UAlberta, UBonn and UCSC, and for most of the courses at UCL and UPC, but in Spanish for most of the courses at PUC. Examination can be organized in English at all partners.

SAIV2M - Teaching profile

Learning outcomes

By the end of this Master's programme, the graduate student is:

1. aware of the economic, social and environmental dimensions of the performance and competitiveness of the agricultural and food sectors and other profit (market) and non-profit (non-market) activities in rural areas,
2. able to understand the fundamentals of recent economic theory as well as its strengths and weaknesses,
3. able to use and apply adequate methods and tools to address and analyse socio-economic and environmental problems that are observed or anticipated in the agricultural and food sectors and rural areas in different development contexts,
4. able to use complementary approaches from other disciplines when needed,
5. able to perform sound quantitative economic analysis and anticipate possible effects of policy and regulation reforms,
6. able to interpret results and derive policy implications and recommendations,
7. able to draw from European experience and expertise in designing and evaluating policy and regulatory reforms given the economic, social, environmental and ethical dimensions of the issues facing societies expressing structural change, and
8. able to communicate their methods and results to both specialised and non-specialised audiences, in at least two European languages.

The main objective of this Master's programme is that graduates be qualified to use and apply adequate methods to analyse socio-economic problems, formulate policy recommendations and understand the risks and consequences of any given economic policy measures, especially those oriented to the agricultural and food sector, rural areas as well as natural resources and their environment. In particular, graduates are expected to be able to use and develop quantitative methods to perform rigorous socio-economic and environmental assessments of these public policies, and provide sound and relevant policy recommendations to a better sustainable development of rural areas.

Programme structure

Regardless of the optional and supplementary courses that are selected, this Master's programme carries a minimum of 120 ECTS credits over two annual units corresponding to 60 ECTS credits each. If selected to the inter-university AFEPA programme, the student generally spends one academic year at UCL and a second academic year at one of the main partner universities. The student can also earn a limited number of ECTS credits at associated partner universities.

This Master's programme is structured in four blocks of teaching and learning activities totalling 120 ECTS credits:

1. A core set of compulsory learning activities for 40 ECTS credits (Master's thesis, two summer schools)
2. A professional focus of compulsory courses for 30 ECTS credits (microeconomic theory, agricultural and trade policy, quantitative methods)
3. An option with optional courses for 30 ECTS credits that can be grouped into five subject areas:
 - i. agri-food and trade policy (at UCL and partner universities)
 - ii. development policy at UCL (at UCL and partner universities)
 - iii. environmental and natural resource policy (at partner universities)
 - iv. agribusiness and market analysis (at partner universities)
 - v. market and consumer research (at partner universities)
4. A set of supplementary courses, including a language course, for 20 ECTS credits

For a programme-type, and regardless of the focus, options/or elective courses selected, this master will carry a minimum of 120 credits divided over two annual units, corresponding to 60 credits each.

[> Core courses](#) [en-prog-2016-saiv2m-lsaiv220t.html]

[> Professional focus](#) [en-prog-2016-saiv2m-lsaiv200s]

Options courses

[> Agricultural, Food and Environmental Policy Analysis](#) [en-prog-2016-saiv2m-lbira923o.html]

[> Environmental & Natural Resource Policy](#) [en-prog-2016-saiv2m-lbira938o.html]

[> Agribusiness Management & Market Analysis](#) [en-prog-2016-saiv2m-lbira945o.html]

> Courses to be chosen amongst the following list [[en-prog-2016-saiv2m-lbira935o.html](#)]

SAIV2M Detailed programme

Programme by subject

CORE COURSES

- Mandatory
 Courses not taught during 2016-2017
 Periodic courses taught during 2016-2017
- Optional
 Periodic courses not taught during 2016-2017
 Activity with requisites

Click on the course title to see detailed informations (objectives, methods, evaluation...)

							Year	
							1	2
<input type="radio"/> LSAIV2200	Masters thesis			27 Credits				x
<input type="radio"/> LBIRA2210	Master thesis' accompanying seminar	Philippe.Baret Pierre.Bertin (coord.) Cathy.Debier Frederic.Gaspart Anne.Legreve	30h	3 Credits	1 + 2q			x
<input type="radio"/> LBRAI2218	Special Topics in Agricultural Economics	Bruno.Henrydefrahan	30h +22.5h	5 Credits	1q			x

Free choice of courses for 5 credits.

PROFESSIONAL FOCUS [120.0]

- Mandatory
 Courses not taught during 2016-2017
 Periodic courses taught during 2016-2017
- Optional
 Periodic courses not taught during 2016-2017
 Activity with requisites

Click on the course title to see detailed informations (objectives, methods, evaluation...)

							Year	
							1	2
<input type="radio"/> LECON2353	Labour Productivity	Vincent.Vandenberghe	30h	5 Credits	2q		x	
<input type="radio"/> LECON2411	Norms and Public Intervention	Francois.Maniquet Erwin.Ooghe (compensates François Maniquet)	30h	5 Credits	2q		x	
<input type="radio"/> LECON2607	Public Economics	Jean.Hindriks	30h	5 Credits	2q		x	
<input type="radio"/> LBRAI2208	Firms and Markets : Strategic Analysis	Frederic.Gaspart	30h	5 Credits	1q		x	

One course to be chosen amongst the suggested list:

<input type="checkbox"/> LECGE1316	Econometrics	Muriel.Dejemeppe	30h+15h	5 Credits	1q		x	
<input type="checkbox"/> LINGE1221	Econometrics	Sebastien.Vanbellegem	30h+15h	5 Credits	2q		x	
<input type="checkbox"/> LECON2033	Applied econometrics: Microeconometrics	Muriel.Dejemeppe	30h+12h	5 Credits	1q		x	

Year

1 2

o One course to be chosen amongst the suggested list:

⌘ LECON2041	International Trade	Gonzague.Vannoorenbergh	30h	5 Credits	2q	x	
⌘ LECON2865	Trade Policy and International Cooperation - UNamur		30h	5 Credits	2q	x	

OPTIONS

The option with optional courses for 30 ECTS credits that can be grouped into five subject areas is to be taken in the following fields:

- i. agri-food and trade policy (at UCL and partner universities)
- ii. development policy at UCL (at UCL and partner universities)
- iii. environmental and natural resource policy (at partner universities)
- iv. agribusiness and market analysis (at partner universities)
- v. market and consumer research (at partner universities)

as well as a set of supplementary courses, including a language course, for 20 ECTS credits.

> [Agricultural, Food and Environmental Policy Analysis](#) [en-prog-2016-saiv2m-lbira923o]

> [Environmental & Natural Resource Policy](#) [en-prog-2016-saiv2m-lbira938o]

> [Agribusiness Management & Market Analysis](#) [en-prog-2016-saiv2m-lbira945o]

> [Courses to be chosen amongst the following list](#) [en-prog-2016-saiv2m-lbira935o]

AGRICULTURAL, FOOD AND ENVIRONMENTAL POLICY ANALYSIS [30.0]

● Mandatory

△ Courses not taught during 2016-2017

⊕ Periodic courses taught during 2016-2017

⊗ Optional

⊖ Periodic courses not taught during 2016-2017

■ Activity with requisites

Click on the course title to see detailed informations (objectives, methods, evaluation...)

Offered also at CUB, SLU and UBonn

						Year	
						1	2
● LBIRA2105	Agricultural and rural policies	Bruno.Henrydefrahan	30h	3 Credits	1q	x	
● LBRAI2213	Evaluation of Agricultural Policies	Bruno.Henrydefrahan	30h+8h	4 Credits	2q	x	
● LBIRA2104B	Decision Tools	Frederic.Gaspart	20h	2 Credits	2q	x	
○ Courses to be chosen for 21 credits amongst the following list:							
⊗ LBIR1343	Environmental Economics	Frederic.Gaspart	37.5h +7.5h	4 Credits	2q	x	
⊗ LBIRA2104A	Farm Management	Frederic.Gaspart	25h+7.5h	3 Credits	2q	x	
⊗ LBIRA2109	Agrarian systems and farm	Pierre.Bertin	45h+7.5h	5 Credits	1q	x	
⊗ LBIRE2102B	APPLIED GEOMATICS	Pierre.Defourny	22.5h +7.5h	3 Credits	1q	x	
⊗ LBRAI2210	Microeconomics of Development	Frederic.Gaspart	30h	3 Credits	1q	x	
⊗ LBRAI2212	Economics of Rural Development	Frederic.Gaspart (coord.) Bruno.Henrydefrahan	30h	3 Credits	1q	x	
⊗ LECON2312	Macroeconomics of the development	Frederic.Docquier	30h	5 Credits	2q	x	
⊗ LECON2314	Economic Geography	Florian.Mayneris	30h	5 Credits	2q	x	
⊗ LGEO2130	Geographic modelling	Eric.Deleersnijder Sophie.Vanwambeke	30h+30h	5 Credits	2q	x	
⊗ LGEO1321	Human and Economic geography 1	Sophie.Vanwambeke	25h+25h	4 Credits	2q	x	

ENVIRONMENTAL & NATURAL RESOURCE POLICY [30.0]

Offered only at CUB, SLU, UBonn and UPC

AGRIBUSINESS MANAGEMENT & MARKET ANALYSIS [30.0]

Offered only at CUB, SLU, UBonn and UPC

COURSES TO BE CHOSEN AMONGST THE FOLLOWING LIST [20.0]

● Mandatory

△ Courses not taught during 2016-2017

⊕ Periodic courses taught during 2016-2017

⊗ Optional

⊖ Periodic courses not taught during 2016-2017

■ Activity with requisites

Click on the course title to see detailed informations (objectives, methods, evaluation...)

							Year	
							1	2
⊗ LECON2312	Macroeconomics of the development	Frederic.Docquier	30h	5 Credits	2q		x	
⊗ LECON2314	Economic Geography	Florian.Mayneris	30h	5 Credits	2q		x	
⊗ LECON2352	Methods for the evaluation of public policies	William.Pariante	30h	5 Credits	1q		x	
⊗ LECON2031	Applied Econometrics : Time Series	Zhengyuan.Gao	30h+12h	5 Credits	1q		x	
⊗ LBIRA2104B	Decision Tools	Frederic.Gaspart	20h	2 Credits	2q		x	
⊗ LBIRA2105	Agricultural and rural policies	Bruno.Henrydefrahan	30h	3 Credits	1q		x	
⊗ LBRAI2213	Evaluation of Agricultural Policies	Bruno.Henrydefrahan	30h+8h	4 Credits	2q		x	
⊗ LBIRA2104A	Farm Management	Frederic.Gaspart	25h+7.5h	3 Credits	2q		x	
⊗ LBIRA2109	Agrarian systems and farm	Pierre.Bertin	45h+7.5h	5 Credits	1q		x	
⊗ LBIRE2102B	APPLIED GEOMATICS	Pierre.Defourny	22.5h +7.5h	3 Credits	1q		x	
⊗ LBRAI2210	Microeconomics of Development	Frederic.Gaspart	30h	3 Credits	1q		x	
⊗ LBRAI2212	Economics of Rural Development	Frederic.Gaspart (coord.) Bruno.Henrydefrahan	30h	3 Credits	1q		x	
⊗ LECON2033	Applied econometrics: Microeconometrics	Muriel.Dejemeppe	30h+12h	5 Credits	1q		x	
⊗ Other suggested courses:								
⊗ LECON2607	Public Economics	Jean.Hindriks	30h	5 Credits	2q		x	
⊗ LECON2865	Trade Policy and International Cooperation - UNamur		30h	5 Credits	2q		x	
⊗ LBRAI2208	Firms and Markets : Strategic Analysis	Frederic.Gaspart	30h	5 Credits	1q		x	
⊗ LGEO2130	Geographic modelling	Eric.Deleersnijder Sophie.Vanwambeke	30h+30h	5 Credits	2q		x	

Course prerequisites

A document entitled [en-prerequis-2016-saiv2m.pdf](#) specifies the activities (course units - CU) with one or more pre-requisite(s) within the study programme, that is the CU whose learning outcomes must have been certified and for which the credits must have been granted by the jury before the student is authorised to sign up for that activity.

These activities are identified in the study programme: their title is followed by a yellow square.

As the prerequisites are a requirement of enrolment, there are none within a year of a course.

The prerequisites are defined for the CUs for different years and therefore influence the order in which the student can enrol in the programme's CUs.

In addition, when the panel validates a student's individual programme at the beginning of the year, it ensures the consistency of the individual programme:

- It can change a prerequisite into a corequisite within a single year (to allow studies to be continued with an adequate annual load);
- It can require the student to combine enrolment in two separate CUs it considers necessary for educational purposes.

For more information, please consult [regulation of studies and exams](#).

The programme's courses and learning outcomes

For each UCL training programme, a [reference framework of learning outcomes](#) specifies the competences expected of every graduate on completion of the programme. You can see the contribution of each teaching unit to the programme's reference framework of learning outcomes in the document "In which teaching units are the competences and learning outcomes in the programme's reference framework developed and mastered by the student?"

The document is available by clicking [this link](#) after being authenticated with UCL account.

SAIV2M - Information

Admission

General and specific admission requirements for this program must be satisfied at the time of enrolling at the university..

General and specific admission requirements for this Master's programme must be satisfied at the time of enrolling at UCL:

1. having acquired a Bachelor's degree or an equivalent academic degree of minimum three years of undergraduate study corresponding to 180 ECTS credits;
2. having followed courses in mathematics, statistics and economics at an introductory level is mandatory; having an additional introduction to agricultural, environmental or food sciences is recommended; and
3. proofing English proficiency at the minimum level of B2 of the Common European Framework of Reference for Languages (see www.coe.int/en/web/portfolio).

Applicants not meeting these admission conditions need to follow additional supplementary courses. The modified study programme will be established with the Study Adviser of the Faculty.

The admission to the inter-university AFEPa programme is subject to specific conditions including English proficiency at the minimum level of a TOEFL score of 550 (paper version) or 80 (internet version) or an overall band IELTS score of 6.5 with no sectional score below 5.5 or with a signal deemed equivalent. Notwithstanding these admission criteria, individual partner institutions reserve their right to determine the final admission eligibility of each applicant. Applicants are requested to respect deadlines for their application. Additional information is provided at www.afepa.eu .

- [University Bachelors](#)
- [Non university Bachelors](#)
- [Holders of a 2nd cycle University degree](#)
- [Holders of a non-University 2nd cycle degree](#)
- [Adults taking up their university training](#)
- [Personalized access](#)

University Bachelors

Diploma	Special Requirements	Access	Remarks
UCL Bachelors			
Bachelier en sciences géographiques	voir www.uclouvain.be/afepa	On the file: direct access or access with additional training	
Bachelier en sciences économiques	voir www.uclouvain.be/afepa	On the file: direct access or access with additional training	
BIR1BA	voir www.uclouvain.be/afepa	On the file: direct access or access with additional training	
Others Bachelors of the French speaking Community of Belgium			
Bachelier en sciences géographiques et/ou environnementales	voir www.uclouvain.be/afepa	On the file: direct access or access with additional training	
Bachelier en sciences sociales et/ou économiques	voir www.uclouvain.be/afepa	On the file: direct access or access with additional training	
Bachelier en sciences de l'ingénieur, orientation bioingénieur	voir www.uclouvain.be/afepa	On the file: direct access or access with additional training	
Bachelors of the Dutch speaking Community of Belgium			
Tout grade de bachelier en sciences sociales, économiques, agronomiques, géographiques et/ou environnementales	voir www.uclouvain.be/afepa	On the file: direct access or access with additional training	
Foreign Bachelors			
Tout grade de bachelier en sciences sociales, économiques, agronomiques,	voir www.uclouvain.be/afepa	On the file: direct access or access with additional training	

géographiques et/ou
environnementales

— Non university Bachelors

Diploma	Access	Remarks
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> Find out more about [links](#) to the university

— Holders of a 2nd cycle University degree

Diploma	Special Requirements	Access	Remarks
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"Licenciés"

Masters

Tout grade de master en sciences sociales, agronomiques, économiques, géographiques et/ou environnementales	voir www.uclouvain.be/afepa	On the file: direct access or access with additional training	
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— Holders of a non-University 2nd cycle degree

Diploma	Access	Remarks
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> Find out more about [links](#) to the university

Adults taking up their university training

> See the website www.uclouvain.be/en-vae

It is possible to gain admission to all masters courses via the validation of professional experience procedure.

Personalized access

Reminder : all Masters (apart from Advanced Masters) are also accessible on file.

Admission and Enrolment Procedures for general registration

Specific procedures :

Tout étudiant postulant à ce master est invité à consulter les pages suivantes www.uclouvain.be/afepa pour connaître les dates limites d'inscription à ce programme interuniversitaire.

Teaching method

L'interdisciplinarité et l'approche intégrée sont des dimensions essentielles dans la formation des **bioingénieurs en sciences agronomiques**.

Ces dimensions sont soutenues par :

- l'offre d'enseignements organisés par d'autres Facultés ;
- l'offre d'enseignements en anglais;
- le regroupement d'activités de formation : exercices intégrés, projet intégré, analyses de situations réelles, mises en situation ;
- la perception, l'analyse, le diagnostic et la proposition de cahiers de charges (gestion, conception de nouveaux procédés...) intégrant divers types d'outils (observations de terrain, analyses de laboratoire, bases de données, biométrie, modélisation, simulation...) et diverses échelles d'espace (du moléculaire à la parcelle et à l'exploitation, de la région agricole au sous-continent, et au-delà) et de temps ;
- l'implication d'équipes d'enseignants de compétences et d'expériences complémentaires ;
- la formation et la stimulation au travail en équipe d'étudiants intégrant le développement d'une véritable capacité autonome de travail intellectuel;
- la possibilité de réaliser un stage d'insertion socio-professionnelle.

Une panoplie d'outils didactiques est mise à la disposition des étudiants.

Les laboratoires décentralisés à Michamps et à Chimay et le Centre Alphonse de Marbaix à Corroy-le-Grand où se cotoient des écosystèmes agricoles et naturels.

Des laboratoires de chimie et de physiologie équipés avec des instruments de pointe accueillent les étudiants dans le cadre de travaux pratiques ou de leur mémoire de fin d'études. Plusieurs salles didactiques équipées d'ordinateurs et de logiciels récents permettent à tout moment de travailler sur des outils de gestion de données et de modélisation.

La formation à la recherche et par la recherche, indispensable à l'éveil conceptuel et innovant et à l'apprentissage de la rigueur, est soutenue par diverses activités de formation :

- la réalisation d'un mémoire de fin d'études;
- la participation à des séminaires disciplinaires assurant un contact direct avec des jeunes chercheurs oeuvrant dans le domaine des sciences agronomiques (biologie appliquée et productions agricoles et socio-économie rurale) ;
- la présentation de séminaires par les étudiants au sein du(des) groupe(s) de recherche d'accueil et de réalisation du mémoire.

L'application des compétences, des connaissances et des techniques acquises, et leur utilisation intégrée, est prise en compte dans la réalisation d'un projet intégré en sciences agronomiques. Cette activité importante d'apprentissage complète la réalisation du mémoire auquel la Faculté souhaite conserver le caractère prédominant de formation à la recherche.

En raison de la proximité entre enseignement et recherche, le développement de nouveaux outils et de nouvelles approches fait l'objet de formations avancées dès le second cycle et donc au sein même de ce programme de master (p.ex. la lutte intégrée en protection des cultures, la bioinformatique, l'aide à la décision...).

Evaluation

The evaluation methods comply with the [regulations concerning studies and exams](#). More detailed explanation of the modalities specific to each learning unit are available on their description sheets under the heading "Learning outcomes evaluation method".

Students are assessed according to the activities in the programme : this can take the form of written and/or oral examinations as well as individual and/or group work.

Further details about how the assessment is done can be found in the course specifications.

Mobility and/or Internationalisation outlook

On a case by case basis, subject to a bilateral exchange agreement, students registered in this Master's programme have the possibility to spend a short study or research period at other institutions and may be able to integrate their academic credits earned into their academic curriculum at one of these partner institutions. Currently, bilateral exchange agreements exist with the Rheinische-Friedrich-Wilhelms Universität Bonn (UBonn) in Germany, the Swedish University of Agricultural Sciences (SLU) in Sweden, the Università Cattolica del Sacro Cuore (UCSC) in Milano, Italy, the Pontificia Universidad Católica (PUC) in Chile, the Universitat Politècnica de Catalunya (UPC) in Spain and, soon, the University of Alberta (UALberta) in Canada.

If selected to the inter-university AFEPa programme, students generally spend one academic year at UCL and a second academic year at one of the main partner universities: UBonn, SLU and UCSC. On a case by case basis, subject to a bilateral exchange agreement, students can also earn a limited number of ECTS credits at associated partner universities: PUC, UPC and UALberta (see www.afepa.eu) .

Possible trainings at the end of the programme

Successful completion of this Master's programme enables direct entry to other training programmes in the second and third cycles.

- Advanced Masters : the Advanced Masters in the field authorized by regulations in addition to those established by the University Development Commission (Commission Universitaire au Développement - CUD) in the same field.
- Doctoral programmes: doctorate in Agronomic Science and Biological Engineering and other fields and universities subject to admission.

Contacts

Attention, you are currently reading a page of an old programme study. To get up to date contact information, please got to the [current program study](#) site.

For more information, please contact Professor Bruno Henry de Frahan at www.afepa.eu

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