





Exchange students

Spring Semester Course Guide


CONTENTS

- ❖ Academic calendar page 2
- ❖ Application procedures page 2
- ❖ French as a foreign language – Français langue étrangère page 3

English programs

-  ❖ Vocational Bachelor degree (year 3) - Innovation and Transformation of local food products page 4
-  ❖ Vocational Bachelor degree (year 3) - Plant Production – Minor Plant breeding and experimentation page 5

French programs

-  ❖ 3ème année de Licence – Cycle ingénieur agronome // Bachelor of science in Agricultural Engineering – 3rd year pages 6
-  ❖ 1ère année de Master – Cycle ingénieur agronome // Master of science in Agricultural Engineering – 1st year 7

SPRING CALENDAR 2022-2023

FOR ALL INTERNATIONAL STUDENTS

- Welcome day: **beginning January 2023**
- French courses/Intercultural activities: **beginning January 2023**



❖ Vocational bachelor's degrees (year 3)

- Spring semester courses: **From beginning of February 2023 until end of May 2023**



❖ Bachelor of science in Agricultural Engineering – 3rd year

- Spring semester courses: **From beginning of February until end of May 2023**



❖ Master of science in Agricultural Engineering – 1st year and 2nd year

- Spring semester courses: **From beginning of February until end of May 2023**

Admission procedures

Deadlines: Nomination: October 31st // Application: November 30th

➤ **Step 1: Nomination by Home University**

ESA's incoming mobility coordinator must receive an official nomination from your home university.

➤ **Step 2: Complete your application file**

Start your application by creating an account on our online platform: <https://olage.groupe-esa.com/> And select "Exchange student SPRING Semester – 2022-2023".

You will need the following documents: CV – Cover letter – Academic Transcript of records – certified document of B2 level either in French or English – copy of your passport or national ID (Europe).

➤ **Step 3: Complete your learning agreement**

Once your application has been accepted you will have to complete your learning agreement, either your home university version or the version provided by the ESA international office.

➤ **Step 4: Welcome pack + admission letter sent by ESA**

Once these steps are completed, you will receive your official acceptance letter and welcome pack.

FRENCH AS A FOREIGN LANGUAGE
FRANÇAIS LANGUE ÉTRANGÈRE

French courses as a Foreign Language are highly recommended for all international students.

Les cours de français sont fortement recommandés pour tous les étudiants internationaux.

Calendrier des cours de FLE dans l'établissement d'accueil et code de la matière / Study period of courses « French as a Foreign Language » and course code	Nombre de crédits ECTS attribués Number of ECTS credits to be awarded
	Séjours d'études Exchange students
FLE3 – du 02 février au 18 mai – February 02 to May 18	2

Vocational Bachelor degree (year 3) Innovation and Transformation of local food products

- **Language of instruction:**  B1 level minimum
- **Requirements:** Bachelor 2 or Bachelor 3 in sciences

Module 1 – Typical product characterization (TYPC)	
TYPC1 – Food science and technology – 6ECTS	15 ECTS
TYPC2 - Quality label/concept of terroir – 5 ECTS	
TYPC3- European Food law and policy/risk management – 2 ECTS	
TYPC4- Branding of regional products and sales – 2 ECTS	
Module 2 – Management of an innovative project and innovation strategies (MIPS)	
MIPS1 - Food product innovation and innovation strategies – 6 ECTS	15 ECTS
MIPS2 - Project management – 2 ECTS	
MIPS3- Local and industrial processing – 2 ECTS	
MIPS4- Case study – 5 ECTS	
30 ECTS	

Vocational Bachelor degree (year 3)

Plant Production – Minor Plant breeding and experimentation

- **Language of instruction:**  B1 level minimum
- **Requirements:** Bachelor 2 or Bachelor 3 in sciences

Module 1 – Introduction to French	
- Survival French and visits in Angers area (food, wine and crop production)	2 ECTS
Module 2 – Production management	
<ul style="list-style-type: none"> - Genetics and genetic resources - Crop pathology - Vegetal excellence in Angers: company visits in the field of seed production, field experimentation, innovation. Students will improve their expertise and strengthen their career project. 	5 ECTS
Module 3 – Crop breeding and experimentation	
<ul style="list-style-type: none"> - Case study breeding and experimentation: plant breeding, Genotyping, plant genomics - Experimental scheme/field trials and data analysis - Breeding and seed quality: seed sorting, seed processing, seed quality 	11 ECTS
Module 4 – Company placement	
- 7 to 9-week internship in plant selection company or experimentation station, many possibilities among ESA's company network)	12 ECTS
30 ECTS	

3ème année de Licence – Cycle ingénieur agronome

Bachelor of science in Agricultural Engineering – 3rd year

- **Langue d'enseignement :** ■ ■ Niveau B1 minimum
- **Prérequis:** Licence 2 ou 3
- **Language of instruction:** ■ ■ B1 level minimum
- **Requirements:** Bachelor's degree 2nd or 3rd year

SPRING SEMESTER - COMMON CORE COURSES 3 rd YEAR	EACH MODULES ARE MANDATORY
IL3-TRANQUA-TRANSQUA - Transformation et outils de diagnostic de la qualité – Transformation and Tools for quality diagnostics	3 ECTS
IL3-FENEX-FENEX - Fonctionnement de l'entreprise et de l'exploitation agricole – Business Operation and Farming	4 ECTS
IL3-MAFIL-MAFIL - Marketing, filières – Marketing, Value Chains	5 ECTS
Anglais – for non-English speaker students	1 ECTS
IL3-STAT2-STAT2 - Statistiques inférentielles 2 – Level 2 Inferential Statistics	3 ECTS
OPTION A : IL3-ET - Option A, Entreprise et Transformation – Business and Transformation *	
Choisir l'option A ou B / Choose option A or B	
IL3-ET-PROC – Procédés – Processes	3 ECTS
IL3-ET-FAB – Fabrication – Manufacturing	3 ECTS
IL3-ET-PROJ – Projet - Project	6 ECTS
OPTION B : IL3-AT - Option B, Agriculture et Territoire – Types of Agriculture and Territories *	
Si option B, choisir soit B1, B2, B3 ou B4 If option B, choose between B1, B2, B3 or B4 (ONE only) **	
IL3-AT-MUL - Multifonctionnalité de l'agriculture – Multifunctional Agriculture (CC)	3 ECTS
IL3-AT-PAE - Productions agricoles et écologie appliquée - Crop production and Applied Ecology (CC)	5 ECTS
IL3-AT-MONO - Option B1 Monogastriques – Monogastric **	4 ECTS
IL3-AT-HERBI - Option B2 Herbivores – Herbivore **	4 ECTS
IL3-AT-CA - Option B3 Cultures annuelles – Annual Crops **	4 ECTS
IL3-AT-VITI - Option B4 Viticulture durable – Sustainable Viticulture **	4 ECTS
28 ECTS	

1ère année de Master - Cycle ingénieur agronome

Master of science in Agricultural engineering – 1st year

- **Langue d'enseignement:** ■ ■ Niveau B1 minimum
- **Prérequis:** Licence 3 ou Master 1

- **Language of instruction:** ■ ■ B1 level minimum
- **Requirements:** final year Bachelor or master 1st year

SPRING SEMESTER - COMMON CORE COURSES	EACH MODULES ARE MANDATORY
IM1-AD-S8 - Analyses de données multivariées niveau 1 et 2 (<i>si pas suivi au semestre d'automne</i>) – Level 1 & 2 Multivariate Data Analysis (<i>if not taken in the fall</i>) OR IM1-RFAG-S8 - Regional Foods Across the Globe: Cultures, Identities and Business' (<i>taught in English</i>)	4 ECTS
IM1-SHS-S8 – Sciences humaines et sociales ODIN - Ouverture, développement, international, négociation – Transparency, to development, International, Negotiation	4 ECTS
IM1-SSOL-S8 – Sciences sociales et langues PROJET - Management et gestion de projet – Project Management	4 ECTS
MAJEURES – MAJORS/SPECIALIZATIONS	CHOOSE ONE MAJOR (modules are indivisible)
Major PVA – Productions Végétales et Agroécologie – Crop production and Agroecology IM1-PRODIV- Productions et Biodiversités – Farm Productions and Biodiversity (6 ECTS) IM1-FILTER- Filières et Territoires : Gestion durable des productions végétales – Value chains and Regions : Sustainable crop production management (6 ECTS)	12 ECTS
Major TED – Transition Environnementale et Durabilité – Environmental and sustainable Engineering IM1-MIED-MIED - Méthodes d'Ingénierie pour l'Environnementale et la Durabilité – Methods of Environment and Sustainability Engineering (6 ECTS) IM1-RIED-RIED - Réalisation Ingénierie pour l'Environnementale et la Durabilité – Realizing Environmental and Sustainability Engineering (6 ECTS)	12 ECTS
Major PA – Productions animales : Elevage et filière – Animal production : livestock farming and livestock industry IM1-TECH-NUT – Nutrition animale et santé – Animal nutrition and health (4 ECTS) IM1-TECH-AUD1 - Audits d'élevage niveau 1 – Audit of Livestock production (level 1) (2 ECTS) IM1-AEA-AEA – Audits d'élevage approfondis – Advanced audit of livestock production (6 ECTS)	12 ECTS
Major TAQ – Transformation, Alimentation et Qualité – Food processing, food science, nutrition and quality IM1-QSA-MB-MQIAA- Sécurité des aliments et assurance qualité – Food safety and quality insurance (3 ECTS) IM1-QSA-MB-SECA – Sécurité des aliments – Food safety (3 ECTS)	12 ECTS

<p>IM1-QSA-MA-HACCP - Sécurité des aliments et assurance qualité : Applications - Food Safety and Quality Assurance : Applications (1 ECTS)</p> <p>IM1-QSA-MA-APPLI – Etude terrain – Field study (3 ECTS)</p> <p>IM1-QSA-MA-QC – Qualité et sécurité (niveau 2) – Food safety and quality (level 2) (2 ECTS)</p>	
<p>Major MSE – Environnement et ressources de l'entreprise – Business environment and resources</p> <p>IM1-ERE-MB-EJF-NIV1 - Environnement juridique et financier de l'entreprise (niveau 1) – Legal and Financial Business Environment (level 1) (2,75 ECTS)</p> <p>IM1-ERE-MB-GBRH-NIV1 - Gestion budgétaire Management des Ressources Humaines (niveau 1) – Human Resource Management and Financial management (level 1) (3,25 ECTS)</p> <p>IM1-ERE-MA-EJF-NIV2 - Environnement juridique et financier de l'entreprise (niveau 2) – Legal and Financial Business Environment (level 2) (3,50 ECTS)</p> <p>IM1-ERE-MA-GBRH-NIV2 - Gestion budgétaire Management des Ressources Humaines (niveau 2) – Human Resource Management and Financial management (level 2) (2,50 ECTS)</p>	<p>12 ECTS</p>
	<p>24 ECTS</p>

Contact for applications

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(Temporary) Head of International Students unit

Replacing Marie GODARD during her maternity leave

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