



**esa**  
L'ÉCOLE SUPÉRIEURE  
DES AGRICULTURES

# Exchange students

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# ACADEMIC CALENDAR 2024-2025

## FOR ALL INTERNATIONAL STUDENTS

### Fall semester :

- Welcome day: **August 30<sup>th</sup>, 2024**
- French courses/Intercultural activities: **September 2<sup>nd</sup> to September 13<sup>th</sup>, 2024** (*dates to be confirmed*)

### Spring semester :

- Welcome day: **beginning January 2025**



#### ❖ Vocational bachelor's degrees (year 3)

- Spring semester courses: **From beginning of February 2025 until end of May 2025**



#### ❖ Master's level IDWine:

- Fall semester courses: **From mid-October 2024 until end of February 2025**



#### ❖ Bachelor of science in Agricultural Engineering – 3rd year

- Fall semester courses: **From September 18<sup>th</sup> until the end of January 2025**
- Winter break: **December 15<sup>th</sup> to January 3<sup>rd</sup>, 2025**
- Spring semester courses: **From beginning of February until end of May 2025**



#### ❖ Master of science in Agricultural Engineering – 1<sup>st</sup> year and 2<sup>nd</sup> year

- Fall semester courses: **From September 2<sup>nd</sup> until the end of January 2025**
- Winter break: **December 15<sup>th</sup> to January 3<sup>rd</sup>, 2025** (*dates to be confirmed*)
- Spring semester courses: **From beginning of February until end of May 2025**

## Admission procedures

**Deadlines – for fall semester: April 30<sup>th</sup> // for spring semester: October 31<sup>st</sup>**

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

ESA's incoming mobility coordinator must receive an official nomination from your home university that includes: your name, email address, desired field of study and level of program.

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

Start your application file on our online platform: [lien](#)

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 ETRANGERE

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.

<b>Calendrier des cours de FLE dans l'établissement d'accueil et code de la matière / Study period</b> of courses « French as a Foreign Language » and course code	<b>Nombre de crédits ECTS attribués</b> Number of ECTS credits to be awarded
	<b>Séjours d'études</b> Exchange students
<b>FLE1</b> – <i>Session Intensive de 2 semaines (début septembre)</i> – Intensive session during 3 weeks (the first 3 weeks of September)	4
<b>FLE2</b> – <i>De septembre aux vacances de fin d'année</i> – From September until the end of the academic semester	2
<b>FLE3</b> – <i>De février à mi mai</i> – From February to Mid-May ( <i>if enough students to open the group</i> )	2

**Vocational Bachelor degree (year 3)**  
**Innovation and Transformation of local food products**  
**Only during spring semester**

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

Module 1 – Typical product characterization (TPC)	
TPC1 – Food science and technology – 6ECTS	15 ECTS
TPC2 - Quality label/concept of terroir – 5 ECTS	
TPC3- European Food law and policy/risk management – 2 ECTS	
TPC4- 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**  
**Only during spring semester**

- **Language of instruction:**  B1 level minimum
- **Prerequisites:** 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"> <li>- Genetics and genetic resources</li> <li>- Crop pathology</li> <li>- 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.</li> </ul>	5 ECTS
Module 3 – Crop breeding and experimentation	
<ul style="list-style-type: none"> <li>- Breeding and experimentation: plant breeding, genotyping, plant genomics</li> <li>- Experimental scheme/field trials and data analysis (R software, ANOVA, Principal Component Analysis)</li> <li>- Breeding and seed quality: seed sorting, seed processing, seed quality (company's visits)</li> </ul>	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	

Master's level program (year 5)  
**IDWine: Managing Identity and Sustainability of Terroir Driven  
 Wines**

**Only during fall semester**

- **Language of instruction:**  B1 level minimum
- **Prerequisites:** Bachelor 4 or Master 1 in sciences

Module 1 – IM2-IDWINE-EWTS / 10 ECTS	
- Understanding French/European Wine Terroir Systems and assessing the added values of terroir-driven wines(mid-october/december)	10 ECTS
Module 2 – IM2 IDWINE AGIT / 5 ECTS	
- Analysing GIs and Terroir specificities 'International and French' case studies	5 ECTS
Module 3 – IM2-IDWINE-IWTS / 5 ECTS	
- Assessing International Wine Terroir Systems WSET3	5 ECTS
Module 4 – IM2 IDWINEID ARP / 10 ECTS	
- Applied research project	10 ECTS
30 ECTS	

Please note that this program starts on October 11<sup>th</sup> and ends end of February.

## 3ème année de Licence – Cycle ingénieur agronome

### Bachelor of science in Agricultural Engineering – 3rd year

- Langue d'enseignement : ■ ■ Niveau B1 minimum
- Language of instruction: ■ ■ B1 level minimum
- Prérequis: Licence 2 ou 3
- Prerequisites: Bachelor's degree 2<sup>nd</sup> or 3<sup>rd</sup> year

SEMESTRE D'AUTOMNE – COURS OBLIGATOIRE – 3 <sup>ème</sup> année	Nombre d'ECTS à obtenir
ST - Stage en exploitation agricole (6 semaines - de mi-septembre à fin octobre) – <i>Internship</i>	6 ECTS
IL3-PEC - Populations, Communautés, Paysage, Hydrologie et Communication – <i>Populations, Communities, Landscapes, Hydrology and Communication</i>	5 ECTS
IL3-CHANGE - Changements Globaux, gestion des ressources et crises environnementales – <i>Global change, resource management and environmental crises</i>	5 ECTS
IL3- DECRIRE - Développement socio-économique et crises environnementales - <i>Socio-economic development and environmental crises</i>	5 ECTS
IL3- AGAT – Agriculture, Alimentation et Transition – <i>Agriculture, Food chain and Transition</i>	5 ECTS
	<b>26 ECTS</b>

SEMESTRE DE PRINTEMPS – 3 <sup>ème</sup> année (LIENS et OI sont obligatoires + OPTION A ou OPTION B)	Nombre d'ECTS à obtenir
IL3-LIENS – Langues (LV2), Ingénieur Engagé et Solidaire – <i>Committed and supportive engineer</i>	5 ECTS
IL3-OI – Outils de l'ingénieur – <i>Engineering tools</i>	5 ECTS
<b>OPTION A : IL3-ET - Option A, Entreprise et Transformation – Business and Transformation</b>	
IL3-ET-MAMI – Caractérisation de boissons fermentées du commerce – <i>Characterization of commercial fermented beverages</i>	5 ECTS
IL3-ET-STRAMI – Stratégie et Marché – <i>Strategy and market</i>	5 ECTS
IL3-ET-OPUCE – Opérations unitaires caractérisation, environnement – <i>Unit operations, characterization, environment</i>	5 ECTS
IL3-ET-COPI – Contretype d'un produit star de marché – <i>Countertyping a market star product</i>	5 ECTS
<b>OPTION B : IL3-EXAM - Option B, Exploitation agricole dans son milieu – A farm in its environment</b>	
IL3-EXAM-ETEPA – Intégration des Exploitations dans leur territoire et paysage – <i>Integrating farms into their environment and landscape</i>	5 ECTS
IL3-EXAM-PROGEX – Production, gestion de l'exploitation – <i>Production and management of the farm</i>	5 ECTS
IL3-EXAM-FONEA – Fonctionnement de l'exploitation agricole – <i>Farm operations</i>	5 ECTS
IL3-EXAM-OPTION – Végétale // Animale // Environnement – <i>Crop // Animal // Environment</i>	5 ECTS
	<b>30 ECTS</b>



1ère année de Master - Cycle ingénieur agronome  
**Master of science in Agricultural engineering – 1<sup>st</sup> year**

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

- **Language of instruction:** ■ ■ B1 level minimum
- **Prerequisites:** final year Bachelor or master 1<sup>st</sup> year

SEMESTRE D'AUTOMNE – COURS OBLIGATOIRES	Nombre d'ECTS à obtenir
IM1-AD-S7- <b>Analyses de données (niveau 1 et 2) – Level 1 &amp; 2 Multivariate Data Analysis</b>	4 ECTS
IM1-OI- S7 <b>Outil de l'ingénieur</b>  <u>BD</u> - Base de données – <i>Database</i>  <u>INFO</u> - Informatique de l'entreprise – <i>Business Information System</i>  <u>SIG</u> - Systèmes d'informations géographiques – <i>Geographic Information Systems</i>	4 ECTS
IM1-SSOL- S7 <b>Sciences sociales et langues</b>  <u>HOME</u> - Humanités, Ouverture, méthodes, éthique – <i>Humanities, Transparency, Methods, Ethics</i>  <u>OPA</u> - Organisations professionnelles Agricoles – <i>Professional Agricultural Organizations</i>	4 ECTS
<b>IM1-MIM – Module Inter-Majeures // Inter-major modules</b>	<b>Dans ce module, choisir une classe</b>
IM1-MIM-SIG – <b>Systèmes d'Information Géographique – Geographic Information Systems</b>	6 ECTS
IM1-MIM-META – <b>Méta-analyse – Meta-Analysis</b>	6 ECTS
IM1-MIM-ASPE – <b>Analyse sensorielle et plans d'expérience – Sensory Analysis and Sampling Plans</b>	6 ECTS
IM1-MIM-EXPV – <b>Expérimentation en Productions Végétales – Experimentation in Crop Production</b>	6 ECTS
IM1-MIM-SEMS – <b>Stratégie d'Entreprise Marketing Stratégique – Corporate Strategy and Strategic Marketing</b>	6 ECTS
IM1-MIM-GDID – <b>Gestion de Données Informatique Décisionnelle – Data Management and Business Intelligence</b>	6 ECTS
<b>MAJEURES – MAJORS/SPECIALIZATIONS</b>	<b>CHOISIR UNE SEULE MAJEURE</b>
❖ <b>Majeure PVA – Productions Végétales et Agroécologie – Crop production and Agroecology</b>  IM1-PSP-PSA1 – <b>Pilotage des systèmes agricoles (niveau 1) – Farming Production Management Systems (Level 1) (6 ECTS)</b>  IM1-PSP-PSA2 – <b>Pilotage des systèmes agricoles (niveau 2) – Farming Production Management Systems (Level 2) (6 ECTS)</b>	12 ECTS


❖ <b>Majeure VIVI – Vigne et Vin, Production durable et Marchés internationaux</b> – Vine and Wine : Sustainable productions and International market  IM1-OEN-OEN1 – <b>Fondements d'œnologie et itinéraires de production</b> – Basic knowledge of oenology and production (6 ECTS)  IM1-OEN-OEN2 – <b>Oenologie durable et appliquée</b> – Sustainable and applied oenology (6 ECTS)	12 ECTS
❖ <b>Majeure TAQ – Transformation, Alimentation et Qualité</b> – Food processing, food science, nutrition and quality  IM1-FCAA-BIAA1 – <b>Bagages de l'ingénieur en IAA</b> – Technical backgrounds for Engineers in Agri-Food Industries (2 ECTS)  IM1-FCAA-FHP – <b>Fabrication Halle Pilote</b> – Pilot Manufacturing Center (2 ECTS)  IM1-FCAA-MB-OC – <b>Outils de caractérisation</b> – Characterization tools (2 ECTS)  IM1-FCAA-BIAA2 – <b>Etude de cas avec commanditaire &amp; Modélisation</b> – Case study with sponsors & Modelling (2 ECTS)  IM1-FCAA-ET – <b>Etudes de cas entreprise</b> – Company case studies (4 ECTS)	12 ECTS
❖ <b>Majeure PA – Productions animales : élevages et filières</b> – Animal Production : livestock farming and livestock industry  IM1-SEL-GEN – <b>Génétique et systèmes d'élevage</b> - Genetics and breeding systems (2 ECTS)  IM1-SEL-MOD – <b>Modélisation</b> – Modelling (2 ECTS)  IM1-SEL-DUR- <b>Durabilité des systèmes d'élevage</b> – Sustainability of livestock systems (2 ECTS)  IM1-SEL-ETU-ETU – <b>Etudes terrain</b> – Field studies (6 ECTS)	12 ECTS
	<b>30 ECTS</b>

<b>SEMESTRE DE PRINTEMPS – COURS OBLIGATOIRE</b>	<b>Nombre d'ECTS à obtenir</b>
IM1-AD-S8 - <b>Analyses de données multivariées niveau 1 et 2</b> ( <i>si pas suivi au semestre d'automne</i> ) – Level 1 & 2 Multivariate Data Analysis ( <i>if not taken in the fall</i> ) <b>OR</b> IM1-RFAG-S8 - <b>Regional Foods Across the Globe: Cultures, Identities and Business'</b> ( <i>taught in English</i> )	4 ECTS
IM1-SHS-S8 – <b>Sciences humaines et sociales</b> <b>ODIN</b> - Ouverture, développement, international, négociation – Transparency, to development, International, Negotiation	4 ECTS
IM1-SSOL-S8 – <b>Sciences sociales et langues</b> <b>PROJET</b> – Management et gestion de projet – Project Management	4 ECTS
<b>MAJEURES – MAJORS/SPECIALIZATIONS</b>	<b>CHOISIR UNE SEULE MAJEURE</b>
❖ <b>Majeure PVA – Productions Végétales et Agroécologie</b> – Crop production and Agroecology IM1-FILTER- <b>Filières et Territoires : Gestion durable des productions végétales</b> – Value chains and Regions : Sustainable crop production management (6 ECTS) IM1-PRODIV- <b>Productions et Biodiversités</b> – Farm Productions and Biodiversity (6 ECTS)	12 ECTS

❖ <b>Majeure IED – Ingénierie pour l’Environnementale et Durabilité – Environmental and sustainable Engineering</b>  IM1-MIED – <b>Méthodes d'Ingénierie pour l'Environnementale et la Durabilité – Methods of Environment and Sustainability Engineering (6 ECTS)</b>  IM1-RIED – <b>Réalisation Ingénierie pour l'Environnementale et la Durabilité – Realizing Environmental and Sustainability Engineering (6 ECTS)</b>	12 ECTS
❖ <b>Majeure PA – Productions animales : Elevage et filière – Animal production : livestock farming and livestock industry</b>  IM1-TECH-NUT – <b>Nutrition animale et santé – Animal nutrition and health (4 ECTS)</b>  IM1-TECH-AUD1 – <b>Audits d'élevage niveau 1 – Audit of Livestock production (level 1) (2 ECTS)</b>  IM1-AEA-AEA – <b>Audits d'élevage approfondis – Advanced audit of livestock production (6 ECTS)</b>	12 ECTS
❖ <b>Majeure TAQ – Transformation, Alimentation et Qualité – Food processing, food science, nutrition and quality</b>  IM1-QSA-MB-MQIAA – <b>Sécurité des aliments et assurance qualité – Food safety and quality insurance (3 ECTS)</b>  IM1-QSA-MB-SECA – <b>Sécurité des aliments – Food safety (3 ECTS)</b>  IM1-QSA-MA-HACCP – <b>Sécurité des aliments et assurance qualité : Applications - Food Safety and Quality Assurance : Applications (1 ECTS)</b>  IM1-QSA-MA-APPLI – <b>Etude terrain – Field study (3 ECTS)</b>  IM1-QSA-MA-QC – <b>Qualité et sécurité (niveau 2) – Food safety and quality (level 2) (2 ECTS)</b>	12 ECTS
❖ <b>Majeure MSE – Environnement et ressources de l’entreprise – Business environment and resources</b>  IM1-ERE-MB-EJF-NIV1 - <b>Environnement juridique et financier de l'entreprise (niveau 1) – Legal and Financial Business Environment (level 1) (2,75 ECTS)</b>  IM1-ERE-MB-GBRH-NIV1 – <b>Gestion budgétaire Management des Ressources Humaines (niveau 1) – Human Resource Management and Financial management (level 1) (3,25 ECTS)</b>  IM1-ERE-MA-EJF-NIV2 – <b>Environnement juridique et financier de l'entreprise (niveau 2) – Legal and Financial Business Environment (level 2) (3,50 ECTS)</b>  IM1-ERE-MA-GBRH-NIV2 – <b>Gestion budgétaire Management des Ressources Humaines (niveau 2) – Human Resource Management and Financial management (level 2) (2,50 ECTS)</b>	12 ECTS
IM1-MRI- <b>Mission Recherche et Innovation – 12 semaines – Internship on Research and Innovation (12 weeks)</b>  ⇒ <b>Cette mission en entreprise peut être facultative (this company internship is not mandatory)</b>	6 ECTS
<b>30 ECTS</b>	

**2ème année de Master – Cycle ingénieur agronome**  
**Master of science in Agricultural engineering – 2nd year**  
**(Fall semester only)**

- Langue d'enseignement :  Niveau B1 minimum
- Prérequis: Master 1 ou 2

- Language of instruction:  B1 level minimum
- Prerequisites: Master 1<sup>st</sup> or 2<sup>nd</sup> year

Choisir UNE spécialisation (modules non séparables) / Choose ONE specialization (modules are indivisible)	
<b>#1 IM2- MI - Analyse et Management des Marchés Internationaux de Produits Agricoles et Agro-Alimentaires</b> - Analysis and Management of International Markets for Agricultural and food products	
IM2- <u>MI-EDI</u> – Economie et droit international – International law and economics	7 ECTS
IM2- <u>MI-MKI</u> – Marketing international et management du commerce international – International marketing and international business management	8 ECTS
IM2- <u>MI-MNI</u> – Marchés de produits agricoles et alimentaires et négoce international – Markets for agricultural and Food products and International Trade	8 ECTS
IM2- <u>MI-GAAI</u> – Géopolitique de l'agriculture et des affaires internationales – Agricultural geopolitics and International Affairs	7 ECTS
<b>#2 IM2-LV - Production et Transformation dans les filières Lait et Viande – Production and Transformation in Milk and Livestock/Meat value chains</b>	
IM2- <u>LV-PT</u> – Production et transformation du Lait et de la Viande – Production and transformation of Milk and Meat (Livestock) value chains	13 ECTS
IM2- <u>LV-ES</u> – Economie et Stratégie dans les Entreprises des Filières Lait et Viande – Economics and strategy in Business within the Milk and Meat value chains	9 ECTS
IM2- <u>LV-PR</u> – Projet : Fonctionnement et Optimisation des Filières Lait et Viande – Project : Operation and optimization of Milk and Meat value chains	8 ECTS
<b>#3 IM2-REALPV – Relever les enjeux de l'Agroécologie dans les productions végétales – Meet the challenges of Agroecology in crop production</b>	
IM2- <u>REALPV-TER</u> – Territoire – Geography	5 ECTS
IM2- <u>REALPV-TS</u> – Terre et sol – Land and soil	6 ECTS
IM2- <u>REALPV-EN</u> – Enjeux – Challenges	5 ECTS
IM2- <u>REALPV-DIV</u> – Diversité – Plurality	6 ECTS
IM2- <u>REALPV-EL</u> – Etude longue – Study field	8 ECTS
<b>#4 IM2-IDIPA – Innovation et Développement Industriel des Produits Alimentaires – Innovation and Industrial Development of food products</b>	
IM2- <u>IDIPA-CE</u> – Etude cadrée : changement d'échelle – Framed study : change of scale	6 ECTS
IM2- <u>IDIPA-OI</u> – Préparation industrialisation / Echelle pilote / Organisation industrielle – Industrial preparation/ Pilot plant / Industrial organization	12 ECTS
IM2- <u>IDIPA-SQ</u> – Processus conception et développement : objectif sécurité et qualité – Design and development process : safety and quality objectives	4 ECTS

IM2-IDIPA-FORM – <b>Formulation: du brief à la maquette produit</b> – <i>Formulation: from brief to model product</i>	8 ECTS
<b>#5 IM2-TED – Transition environnementale et durabilité</b> – <i>Environmental transition and Sustainability</i>	
IM2-TED-EGDE – <b>Évaluation environnementale, Gestion Durable et Ecoconception</b> – <i>Environmental assessment, sustainable management and eco-design</i>	7 ECTS
IM2-TED-RSEE – <b>Régulation Sociale des Enjeux Environnementaux</b> – <i>Social regulation of environmental issues</i>	7 ECTS
IM2-TED-SVPE – <b>Systèmes Vivants Productifs et Ecosystème</b> – <i>Productive living systems and ecosystem</i>	7 ECTS
IM2-TED-AP – <b>Applications et Projets</b> – <i>Field study</i>	9 ECTS
<b>#6 IM2-MSE – Stratégie, Management et Conseil</b> – <i>Strategy, Management and consulting</i>	
IM2-SMC-ENV – <b>Environnement géopolitique/économique de l'agriculture</b> – <i>Geopolitical/economical environment of agriculture</i>	9 ECTS
IM2-SMC-DIAG – <b>Management de l'innovation</b> – <i>Managing innovation</i>	6 ECTS
IM2-SMC-ENTR – <b>Développer mes compétences d'entrepreneur</b> – <i>Develop my entrepreneurial skills</i>	8 ECTS
IM2-SMC-CONS – <b>Evoluer dans le milieu professionnel</b> – <i>Evolve in the professional world</i>	7 ECTS
<b>#7 IM2-AFISEM – Agroécologues pour la Filière Semencière</b> – <i>Agroecologists for the Seed Value chain</i>	
IM2-AFISEM-FMS – <b>Filière et marché des semences</b> – <i>Seed sector and market</i>	6 ECTS
IM2-AFISEM-SPS – <b>Sélection et Production des semences</b> – <i>Selection and Seed production</i>	6 ECTS
IM2-AFISEM-EI – <b>Enjeux et Innovations</b> – <i>Challenges and Innovation</i>	5 ECTS
IM2-AFISEM-TER – <b>Territoire</b> – <i>Territory</i>	5 ECTS
IM2-AFISEM-ETUD – <b>Etude</b> – <i>Study project</i>	8 ECTS
<b>30 ECTS</b>	

## Contact for incoming students

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