



# Parcours Intégrative neurosciences, exercice physiologie and innovative technologies for sport and health sciences - Non ouvert 2024-2025

Master STAPS : activité physique adaptée et santé



Composante  
UFR Sciences  
et Techniques  
des Activités  
Physiques et  
Sportives



Langue(s)  
d'enseignement  
Anglais

## Présentation

Formation non ouverte à la rentrée 2024-2025.

The REHASP International Master 2 provides access to individualized training, combined with a research project in the field of sport and health. The course content, entirely in English, focuses on the development of high-level knowledge and specialized skills to empower students in the construction and coordination of research projects. Students will be trained in cutting-edge technological tools and will have access to the various platforms of the CAPS laboratory.

## Objectifs

The aim of the international master's program is to impart high-level knowledge in the field of sports training and health, train students in cutting-edge technologies for recording and stimulating the brain and neuromuscular system, and provide scientific rigor in the construction of research protocols.

## Compétences acquises

- Advanced and specialized uses of digital tools in the field of sport and health
- Development and integration of highly specialized knowledge of cognitive-motor processes
- Specialized communication for the transfer of scientific knowledge
- Construction of scientific experiments based on solid hypotheses
- Designing and improving assessments of the resources and skills of people with disabilities and/or special needs/ Assessing and analyzing high-level performance
- Medium-term evaluation and analysis of programs and schemes for specific target groups/Evaluation of the sport project of the structure
- Design, Planning, and Coordination of intervention projects in adapted physical activities and health/Construction and Organization of strategies and training methods

## Organisation

### Ouvert en alternance

**Type de contrat :** Contrat d'apprentissage, Contrat de professionnalisation.



Internships are open to work-study contracts

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## Stages

**Durée du stage** : 300h

**Stage à l'étranger** : Possible

## Admission

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### Conditions d'accès

Access to the program is by application after obtaining a first-year Master degree in France or abroad. Capacity is set at 30 students.

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### Modalités de candidatures

French students apply via the ecandidat platform, while foreign students apply via the Campus France platform.

Admission to the Master 2 International program is based on a selection process that includes an application review and/or interview. Candidates must have completed a first-year Master in Adapted Physical Activity and Health, or Training and Optimization of Sport Performance or Cognitive/Behavioral Neuroscience or equivalent in France or abroad. Consideration will be given to the academic average obtained in Undergraduate and first-year Master programs, the grades obtained in Life Sciences during the 3rd year of bachelor's degree and first-year of Master degree, the certified level of English (if possible with a TOEIC, TOEFL or CLES score), the professional project after training, the work-study or internship already found before entering Master 2.

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### Attendus / Pré-requis

Admission to the Master 2 International program is based on a selection process that includes an application review

and/or interview. Candidates must have completed a first-year Master in Adapted Physical Activity and Health, or Training and Optimization of Sport Performance or Cognitive/Behavioral Neuroscience or equivalent in France or abroad. Consideration will be given to the academic average obtained in Undergraduate and first-year Master programs, the grades obtained in Life Sciences during the 3rd year of bachelor's degree and first-year of Master degree, the certified level of English (if possible with a TOEIC, TOEFL or CLES score), the professional project after training, the work-study or internship already found before

## Et après

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### Débouchés professionnels

PhD candidate, research engineer, research assistant, project manager in sport and health science.

## Infos pratiques

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### Contact scolarité

Scolarité : [✉ vesna.bouiller@u-bourgogne.fr](mailto:vesna.bouiller@u-bourgogne.fr)

Responsable M2 : [✉ florent.lebon@u-bourgogne.fr](mailto:florent.lebon@u-bourgogne.fr)

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### Laboratoire(s) partenaire(s)

INSERM UMR1093 CAPS

[✉ http://u1093.u-bourgogne.fr/](http://u1093.u-bourgogne.fr/)

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## Campus

 Campus de Dijon



# Programme

## Organisation

Each skill block is organized over one or two weeks, with assessment at the end of each week.

### Master 2

#### Semestre 3

	Nature	CMI	CM	TD	TP	TER	ECTS
Usages avancés et spécialisés des outils numériques	Bloc de compétences						6 crédits
Programming/Algorithms	Matière			30h			3 crédits
Advanced statistics	Matière			30h			3 crédits
Développement et intégration de savoirs hautement spécialisés	Bloc de compétences						9 crédits
Optimisation of motor development	Matière		12h	9h			3 crédits
Integrative approach of movement	Matière		12h	9h			3 crédits
Neuromuscular plasticity	Matière		20h				3 crédits
Cognitivo-motor plasticity	Matière		20h				3 crédits
Communication spécialisée pour le transfert de connaissances	Bloc de compétences						6 crédits
Scientific communication	Matière		5h	15h			2 crédits
Experimental and scientific approach	Matière		5h	15h			2 crédits
Seminars (Forthem)	Matière						2 crédits
Appui à la transformation en contexte professionnel	Bloc de compétences						9 crédits
Tutored projects	Matière			20h			4 crédits
Transferability of research, valorization	Matière		5h	15h			3 crédits
Participation in public events	Matière			10h			2 crédits
Conception et amélioration des évaluations des ressources et compétences des publics en situation de handicap et/ou à besoins spécifiques - Evaluation et analyse de la performance de haut niveau	Bloc de compétences						6 crédits
Cerebral stimulation	Matière		6h	10h			2 crédits
Movement analysis	Matière		6h	10h			2 crédits
Robotic and Virtual reality	Matière		6h	10h			2 crédits
Strength	Matière		6h	10h			2 crédits
Peripheral stimulation	Matière		6h	10h			2 crédits
Cardiorespiratory activity	Matière		6h	10h			2 crédits



Evaluation et analyse à moyen terme de programmes et de dispositifs mobilisés pour les publics spécifiques - Evaluation du projet sportif de la structure	Bloc de compétences						3 crédits
Transversal project from mouse to patient	Matière	12h	9h				3 crédits
Psychological, human and strategic aspects of sports performance and training	Matière	12h	9h				3 crédits
Conception, planification et coordination des projets d'intervention en APA-S - Conception des stratégies et des dispositifs d'entraînement et organisation de leur mise en oeuvre	Bloc de compétences						3 crédits
Patient model in scientific and clinical research	Matière	15h					3 crédits
Sports training planning	Matière	15h					3 crédits

## Semestre 4

	Nature	CMI	CM	TD	TP	TER	ECTS
Encadrement et formation au service du projet d'APA-S	Bloc de compétences						18 crédits
Dissertation & defense	Matière						15 crédits
Internship (Mini 300 h)	Stage						3 crédits