

BORDEAUX

Summer Schools



May > September, 2023

université
de **BORDEAUX**

Bordeaux Summer Schools

- › The University of Bordeaux organises **summer schools** that offer a range of high-quality, multidisciplinary, international courses **for graduate and doctoral students as well as young researchers**.
- › **In 2023**, the Bordeaux Summer Schools programme includes a wide range of disciplinary themes. Courses take place between May and September and cover very different disciplines ranging **from African studies to artificial intelligence to cardiology to digital humanities to neuroscience and more!** These summer schools are highly selective and target international talents. Course content offers an enriching curricular experience with, depending on the discipline, a mixture of theoretical and practical training that demands a notable level of expertise and knowledge.
- › Candidates must fulfil the specific requirements of their summer school of choice. Applications are examined and accepted based on the criteria of the summer school in question.

Agenda 2023

- › **May 30th - June 2nd**
Africa's populations by 2050: challenges and potentials
- › **June 5th - June 9th**
Space: convergence of new technologies
- › **June 5th - June 10th**
Conflicts et interventions internationales
- › **June 12th - June 16th**
Philosophy in biology and medicine
- › **June 14th - June 16th**
Percutaneous interventions in congenital heart diseases
- › **June 19th - June 23rd**
Energy efficient embedded artificial intelligence
- › **June 26th - June 30th**
Cardiac electrophysiology
- › **June 26th - June 30th**
Digital humanities in theory and practice: legal history, political science, economics
- › **July 16th - July 28th**
French agriculture in New Aquitaine: strategies to face climate change
- › **July 17th - July 19th**
ECNP Immuno-neuropsychiatry
- › **July 17th - July 29th**
Introduction to experimental neuroscience
- › **September 18th - September 22nd**
Internet of things



Public health, Economics, Political science

Africa's populations by 2050: challenges and potentials

May 30th – June 2nd, 2023
In English

This online summer school is open to graduate and doctoral students as well as professionals interested in the unique challenges and opportunities facing populations in Africa in the coming decades. These challenges include: rapid urbanisation within a context of limited economic growth, increasing vulnerability to climate change, uncontrolled road traffic and the expansion of polluting industries. Course content provides participants with a critical and complementary analysis of the evolution of population in Africa over the past 20 years, as well as the challenges and opportunities for the next 30 years in the context of the Sustainable Development Goals agenda.

© universit  de Bordeaux



bss-africanstudies.u-bordeaux.fr



Electrical engineering, Computer science,
Applied mathematics

Space: convergence of new technologies

June 5th – June 9th, 2023
In English

This summer school is designed for graduate students, engineers and doctoral students with an interest in the latest advances and applications of new space technologies, as well as professionals new to the field or working in companies wanting to discover space.

Course content will address strategies to introduce notions of sustainability into the development and deployment of new space technologies, and more specifically how these technologies may serve planet Earth.





Law, Economics, Political science

Conflits et interventions internationales

June 5th – June 10th, 2023
In French

This summer school is open to graduate and doctoral students as well as post-doctoral fellows and professionals interested in the theme of international conflicts and interventions. Course content will allow participants to understand this subject through a multidisciplinary approach, combining law, political science, international affairs and economics. The programme covers the analysis of different issues related to the cycle of international interventions, and will enable participants to acquire a synthetic and in-depth knowledge of the tools for analysing conflicts and interventions, thus allowing them to reflect on the major controversies that these interventions raise.



© UN Photo - Eschbacher/epb



bss-conflits.u-bordeaux.fr

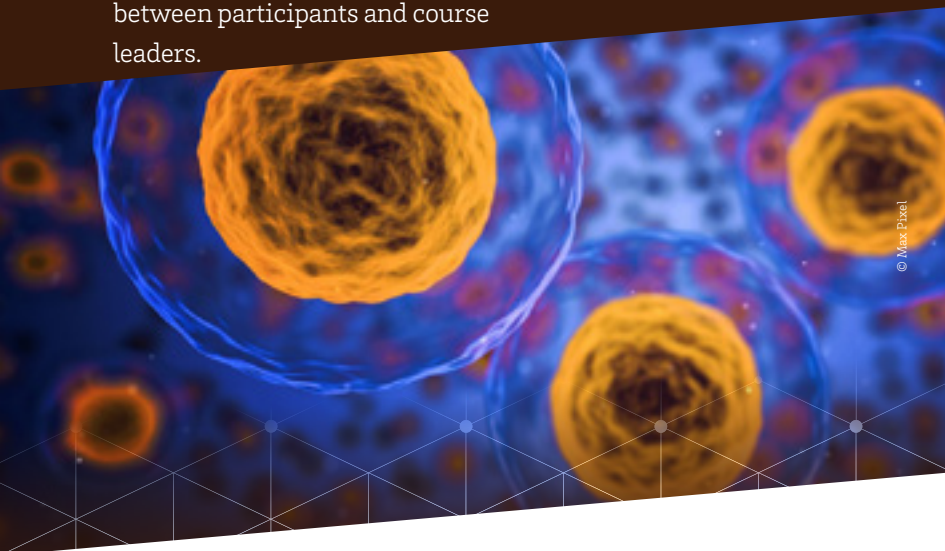


Philosophy, Life sciences, Medicine

Philosophy in biology and medicine

June 12th – June 16th, 2023
In English

This summer school is open to graduate and doctoral students as well as post-doctoral fellows from the fields of philosophy, life sciences and medicine. Participants will learn to use interdisciplinary methods to address conceptual issues in scientific research. Course leaders will be present to highlight practical examples of interdisciplinary partnerships from their career, and to advise and interact with participants throughout the week. The programme will also include different formats such as group work, 'speed dating' sessions and individual discussions, designed to further interactions between participants and course leaders.



© Marc Pixel



bss-philinbiomed.u-bordeaux.fr



Cardiology

Percutaneous interventions in congenital heart diseases

June 14th - June 16th, 2023
In English

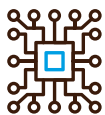
This summer school, dedicated to congenital heart diseases and percutaneous therapies, is open to international science and medical students, engineers and experienced researchers wishing to improve their background knowledge. Course content offers intensive practical classes about the technological aspects of CHD transcatheter interventions, from innovative concepts to clinical practice, including all aspects of device development. Participants will meet with world leading experts in transcatheter interventions, imaging and biomaterials, as well as industrial stakeholders. They will also discover and use cutting-edge technologies and equipment.



© Richard Nourry - Liroyc



www.bss-congenital-heartdisease.u-bordeaux.fr



Deep learning, Neuromorphic computing,
Natural language processing

Energy efficient embedded artificial intelligence

June 19th – June 23rd, 2023
In English

This summer school is open to second year Master students, doctoral students, post-doctoral fellows, researchers and professionals with an interest in embedded artificial intelligence, deep learning, neuromorphic computing, natural language processing, spintronics and 6G communications. Course content will address the consequent skill gap between embedded technology and deep learning applications, and will equip participants with the interdisciplinary knowledge and skills needed to develop innovative circuit architectures and execute data intensive applications on resource-constrained devices.

© Shutterstock - Adobe Stock



bss-e3ai.u-bordeaux.fr



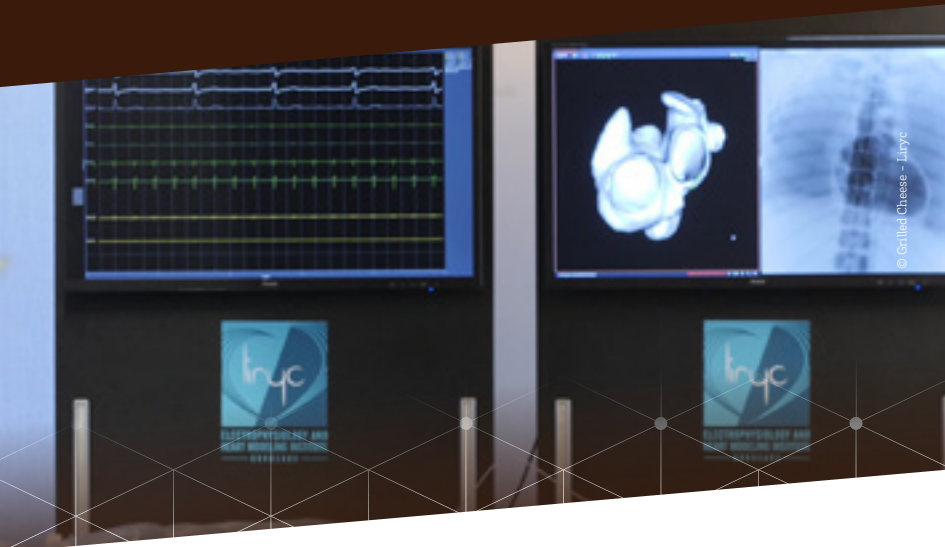
Cardiology

Cardiac electrophysiology

June 26th – June 30th, 2023
In English

This summer school is dedicated to the study of fundamental cardiac electrophysiology. It is open to international science and medical students, engineers and experienced researchers wishing to improve their background knowledge.

Course content offers intensive theoretical and practical sessions concerning all aspects of cardiac electrophysiology, from the molecular level to pre-clinical investigations and patient care.





Law, Computer science,
Social and human sciences

Digital humanities in theory and practice: legal history, political science, economics

June 26th – June 30th, 2023
In English

This summer school is open to graduate and doctoral students as well as post-doctoral fellows and researchers with an interest in law, computer science, social and human sciences.

Course content will introduce participants to the highly innovative and dynamic scientific field of digital legal humanities, with a focus on how these methods are implemented in law, political science, economics and history.



© David - Adobe Stock



bss-digitalhumanities.u-bordeaux.fr



Life sciences

French agriculture in New Aquitaine: strategies to face climate change

July 16th – July 28th, 2023
In English

This summer school provides participants with scientific insight regarding French agricultural challenges, with a focus on strategies to improve agricultural sustainability in order to address environmental issues such as climate change and food security. It is open to third year Bachelor students as well as first and second year Master students with a background in biology.



© Budimir Jevtic - Adobe Stock



bss-frenchagri.u-bordeaux.fr



Neuroscience

ECNP
Immuno-neuropsychiatry

July 17th – July 19th, 2023
In English

This interdisciplinary summer school is open to graduate students, doctoral and post-doctoral researchers from the fields of psychiatry, psychology, biology and medicine. Course content focuses on dimensional approaches in psychiatry, preclinical models and methods to measure immune markers. Lectures on hot topics in immunopsychiatry will be given by internationally renowned scientists from the field.

© Chempeptide



bss-immunoneuropsychiatry.u-bordeaux.fr



Neuroscience

Introduction to experimental neuroscience

July 17th – July 29th, 2023
In English

This summer school offers participants the unique opportunity to discover methods and concepts in neuroscience research through hands-on training within the premises of the Bordeaux School of Neuroscience. Graduate and doctoral students from various disciplines will follow case-based teaching by taking part in mini-projects supervised by experienced doctoral students and international experts in neuroscience.



© Eugene - Adobe Stock



www.bss-neurosciences.u-bordeaux.fr



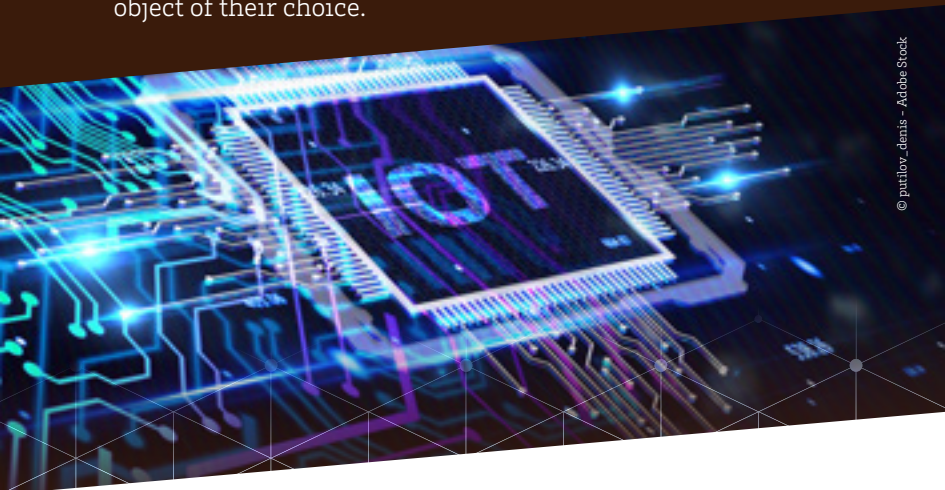
Electrical engineering, Computer science,
Applied mathematics

Internet of things

Sept. 18th – Sept. 22nd, 2023
In English

This summer school is designed for graduate and doctoral students in the fields of electrical engineering, computer science, data science and applied mathematics, with an interest in the topic of the Internet of Things and its environmental and societal impacts.

Course content covers a wide scope of themes, from radio communications to data processing and artificial intelligence, and their applications in e-health, energy harvesting, intelligent transport systems and more. Hands-on tutored workshops complement the theoretical sessions, enabling participants to design, create and programme a connected object of their choice.



© puitlov_denis - Adobe Stock



Mars 2023 - université de Bordeaux - direction de la communication, photo de couverture © Delphostock, AdobeStock

 www.u-bordeaux.fr/en

université
de **BORDEAUX**