

Choosing modules for the SVSAE Doctoral School

This document is provided for information. The official French webpage remains the authoritative source.

Official source: <https://svsae.ed.uca.fr/formation-doctorale/modules-de-led-svsae/choix-des-modules-de-led-svsae>

SVSAE Doctoral School offer

In France, doctoral training combines research within a host laboratory with collective training, including compulsory topics, and activities outside the research project. These activities contribute to the skills expected of PhD graduates under the French ministerial order of 22 February 2019.

Registration and the catalogue of modules offered by the SVSAE Doctoral School are available on ADUM.

ADUM catalogue: <https://adum.fr/script/catalogue.pl?site=casvsae>

UCA course offer

To receive recognition for one or more biology modules, the doctoral candidate must upload the relevant certificate of completion to ADUM.

Level 1 training in animal experimentation SVSAE06

Course information

Language: French

Course coordinator: Claude Beaudoin, iGReD, claud.beaudoin@uca.fr

Target audience: Doctoral candidates enrolled in the Doctoral School of Life Sciences, Health, Agronomy and the Environment

Prerequisite: A research project involving the design or implementation of experimental procedures using animals

Duration: 25 hours for the general module and 39 hours for the species-specific module

Fees: General module: €500; rodents and lagomorphs module: €700; farm animals module: €600

Capacity: Rodents and lagomorphs: 25; farm animals: 15

Recognition: Equivalent to two SVSAE Doctoral School modules

Approval: Approved by the French Ministry of Agriculture, Agri-Food and Forestry under the title Laboratory Animal Sciences

Accreditation numbers: Rodents and lagomorphs: R-63UnivPASCAL-F1-09; farm animals: I-63UnivPASCAL-F1-14

Objective

To carry out procedures involving live animals in accordance with regulations and ethical principles, including the 3Rs.

Programme

The course comprises two compulsory components:

- A general module
- One species-specific module, chosen from Rodents and lagomorphs or Farm animals

General module: 25 hours

- French regulations governing animal experimentation
- Ethical principles concerning human–animal relationships, the intrinsic value of life, and arguments for and against the use of animals for scientific purposes; the 3Rs; and the role and operation of ethics committees
- Applied ethics and implementation of the 3Rs
- Alternative methods and their use in project design
- Basic comparative biology and criteria for selecting an appropriate model
- Humane endpoints, including implementation and selection criteria
- General principles of euthanasia
- Assessment

Species-specific module: 39 hours

- Minimally invasive experimental procedures, including theoretical and practical aspects for the selected species group
- Basic biology of the selected species group
- Recognition of species-specific signs of distress, pain and suffering
- Anaesthesia and analgesia for the selected species group
- Species-specific euthanasia methods
- Animal health and hygiene management and monitoring
- Animal-facility equipment and materials, including their description, use and maintenance for the farm animals module
- Design of experimental procedures and projects
- Assessment

Introduction to experimental surgery in rodents SVSAE07

Course information

Language: French

Course coordinator: Jean-Christophe Pointud, iGReD, j-christophe.pointud@uca.fr

Target audience: Doctoral candidates enrolled in the Doctoral School of Life Sciences, Health, Agronomy and the Environment. Training in surgical procedures is required for anyone who will perform surgery on animals used for scientific purposes, in accordance with the French order of 1 February 2013 on the acquisition and validation of skills for personnel who use, breed or supply animals for scientific purposes.

Prerequisite: Level 1 or Level 2 training in animal experimentation, or training for personnel who design or carry out experimental procedures involving animals

Duration: Not specified on the source page

Fee: €1,100

Maximum number of participants: 20

Recognition: Equivalent to two SVSAE Doctoral School modules

Approval: Approved by the French Ministry of Agriculture, Agri-Food and Forestry under the title Laboratory Animal Sciences

Accreditation numbers listed on the source page:

- Rodents and lagomorphs: R-63UnivPASCAL-F1-09
- Farm animals: I-63UnivPASCAL-F1-14

Objectives

- To obtain authorisation to perform surgical procedures on animals
- To complete statutory training focused on rodents

This course is approved by the French Ministry of Agriculture under accreditation number R-63UnivPASCAL-Chir-09.

Programme

- Organisation of animal surgery
- Pre-operative phase, including antisepsis, asepsis, equipment and premises
- Premedication, anaesthesia, monitoring, analgesia and euthanasia
- Basic procedures, including incision, haemostasis, dissection and suturing
- Specific procedures, including catheterisation, chronic implantation, excision and oocyte implantation
- Post-operative monitoring and care

Level 2 training in procedures involving live animals SVSAE08

Course information

Language: French

Course coordinator: Claude Beaudoin, iGReD, claud.beaudoin@uca.fr, with contributions from UCA lecturers, veterinary surgeons and professors

Target audience: Doctoral candidates enrolled in the Doctoral School of Life Sciences, Health, Agronomy and the Environment who have completed Level 1 training in animal experimentation or an equivalent course

Prerequisite: Level 1 training in animal experimentation or an equivalent course

Duration: Five days, stated as 45 hours on the source page

Fee: €1,000

Maximum number of participants: 24

Recognition: Equivalent to two SVSAE Doctoral School modules

Objective

To acquire the theoretical and practical skills required to carry out procedures involving live animals in accordance with Directive 2010/63/EU and the relevant French decree of 1 February 2013. The course is intended for technical staff and students who perform procedures on live rats and mice.

Programme

Core module: 13 hours

- Regulations: 2 hours
- Ethics: 2 hours
- Alternative methods: 2 hours
- Comparative biology: 3 hours
- Humane endpoints: 2 hours
- Euthanasia: 2 hours

Rodent specialisation module: 36 hours

- Minimally invasive procedures: 3 hours of lectures and 4 hours of practical work
- Design of procedures and projects: 2 hours of lectures
- Health and safety: 2 hours of lectures
- Physiology and anatomy: 2 hours of lectures
- Genetics: 2 hours of lectures
- Behaviour and ethology: 2 hours of lectures and 4 hours of practical work
- Euthanasia methods: 2 hours of lectures
- Zoonoses and animal health: 2 hours of lectures
- Transport, reception and housing of animals: 2 hours of lectures
- Anaesthesia and analgesia: 2 hours of lectures
- Stress and pain: 2 hours of lectures
- Assessment: 1 hour

External modules

The list of external modules on the official webpage is non-exhaustive.

Training outside the catalogue

Other courses offered outside UCA may be recognised as SVSAE Doctoral School modules when all of the following conditions are met.

- The course is relevant to the doctoral candidate's discipline and/or has a clear connection with the thesis project
- The course includes at least 14 hours of effective training
- The doctoral candidate obtains prior approval from the SVSAE Doctoral School management team

Request for prior approval

Send the request to edsvsae.dred@uca.fr before attending the course. The request should state:

- The doctoral speciality and host research unit
- The title of the course
- The name of the provider
- The course dates
- The total duration in hours
- At least one sentence explaining the relevance of the course to the thesis
- A request for confirmation that the course may be recognised as an SVSAE Doctoral School module

Attach the provider's programme or another document describing the course whenever available.

Evidence after completion

After the course or activity, provide a document issued by the organiser confirming attendance or completion.

Courses and activities already recognised

Membership of an animal experimentation ethics committee

First year: Approximately 20 hours

- Assessment of four applications for project authorisation under the supervision of an experienced committee member: 8 hours
- Attendance at four committee meetings: approximately 6 hours
- A half-day course delivered by an external trainer on drafting and assessing applications: approximately 6 hours

Second year: Approximately 18 to 20 hours

- Assessment of four applications for project authorisation under the supervision of an experienced committee member: 8 hours
- Attendance at four committee meetings: approximately 6 hours
- A half-day advanced course on experimental design, statistical tools and assessment of animal numbers: approximately 4 to 6 hours

Recognition: Equivalent to one SVSAE Doctoral School module for each year completed

Environmental metagenomics

How to explore a community of microorganisms without culturing it

Language: French

Registration: Contact gestionnaire-codusmb.ddrv@univ-smb.fr and provide your ADUM identification number

Duration: One week, 32 hours and 30 minutes

Fee: Free of charge

Recognition: Equivalent to one SVSAE Doctoral School module

Objectives

- Understand the taxonomic and functional diversity of microorganisms in different ecosystems
- Understand microbial interactions, evolution and adaptation
- Use methods for analysing microbial community structures
- Understand and analyse environmental metagenomics data

Programme

The course combines five 2.5-hour lectures, 16 hours of practical work and 4 hours of tutorials. Participants learn how to characterise an aquatic microbial community from sampling to analysis of the generated sequencing data, including taxonomic and functional analysis of reads, assembly and metagenome-assembled genomes.

The source page lists the CARTEL site in Thonon-les-Bains and dates of 20 to 24 January 2025. Availability and dates should therefore be checked before registration.

Course offered by another doctoral school or a French research organisation

Language: French, English or another language

Duration: At least 14 hours

Recognition: Equivalent to one SVSAE Doctoral School module

Registration: Register directly with the external provider. If the provider requires proof of enrolment in a national doctoral degree at Clermont Auvergne University, contact edsvsae.dred@uca.fr.

Information to enter in ADUM after prior approval

- Course title
- Provider
- Dates
- Total duration in hours
- Venue, specifying whether the course was online
- Learning objectives
- Programme, which may be summarised in a few points or one sentence

Supporting document: A signed certificate of attendance; a digital badge may be submitted without a signature

UCA Master course taken during the PhD

Language: French or English

Duration: At least 14 hours. A Master course unit usually comprises 24 hours, and attendance at the complete unit is encouraged

Recognition: Equivalent to one SVSAE Doctoral School module

UCA Master catalogue: <https://www.uca.fr/formation/nos-formations/catalogue-des-formations/par-type-de-diplome/masters>

Registration: Contact the administrative office responsible for the relevant Master programme. If registration is delayed, contact edsvsae.dred@uca.fr.

Information to enter in ADUM after prior approval

- Course unit title and code, for example UE 224 Evaluation médico-économique
- Master programme and track, for example Master Santé Publique, Parcours 2 Evaluation en Santé EVAL
- Academic unit responsible for the course, for example the Faculty of Medicine and Health Professions
- Semester and academic year, for example Semester 1, 2023–2024
- Number of hours attended
- Learning objectives
- Programme, which may be summarised in a few points or one sentence

Supporting document: A signed certificate of attendance; a digital badge may be submitted without a signature

Placement in an external laboratory or a company

Language: Not applicable

Duration: At least three days

Recognition: Equivalent to one SVSAE Doctoral School module

ADUM title after prior approval: SVSAE External placement in a laboratory or company XXXX 202X, where XXXX is the host organisation and 202X is the year of completion

Information to enter in ADUM

- For a research unit: name, unit code, supervising institutions and full address
- For a private company: company name, SIRET number and the address of the site where the placement took place
- Full name and position of the placement supervisor
- Placement dates
- Total duration in hours
- At least three placement objectives
- A five-to-ten-line summary of the work and tasks completed

Supervision of school pupils or undergraduate students

Language: Not applicable

Duration: A cumulative total of three weeks during the PhD

Recognition: Equivalent to one SVSAE Doctoral School module

ADUM title after prior approval: SVSAE Internship supervision 202X

Information to enter in ADUM

- The student's level, such as lower or upper secondary school or Bachelor level
- The time spent by the student at the workplace
- A brief description of the tasks and activities assigned to or completed with the student

Supporting documents: Each placement agreement must be submitted and must name the doctoral candidate as the placement supervisor

Conditions for recognition

Supervision of one or more secondary-school pupils or third-year Bachelor students for a cumulative total of at least three weeks is equivalent to one SVSAE Doctoral School module.

The three weeks may be accumulated over several years of the PhD. This activity can be recognised only once; six cumulative weeks do not result in recognition of a second module.

Oral presentation in English at an international conference

The doctoral candidate must attend the entire conference. Poster presentations are not eligible.

Language: English

Duration: Variable according to the event, generally one to three days

Recognition: Equivalent to one SVSAE Doctoral School module

ADUM title after prior approval: SVSAE Oral presentation at an international conference XXXX 202X

Information to enter in ADUM

- Name of the conference or seminar
- Organiser
- Dates
- Venue
- Duration of the oral presentation

Supporting documents

- A certificate of attendance signed by the conference organisers
- An email confirming participation or a PDF of the programme listing the presentation

Organisation of the SVSAE Doctoral School Scientific Days

Language: Not specified

Duration: Variable, with a substantial time commitment in the weeks before the event, usually held in June

Recognition: Equivalent to two SVSAE Doctoral School modules

ADUM title after prior approval: SVSAE Organisation of the SVSAE Doctoral School Scientific Days 202X

Evidence: The contribution is recognised directly by the Doctoral School because the event is organised in close collaboration with its management team

Description

The Scientific Days give doctoral candidates an opportunity to present their thesis research. They are organised by the SVSAE Doctoral School management team with a group of approximately five to eight doctoral candidates.

Membership of the SVSAE Doctoral School Scientific Council

Language: Not specified

Duration: An ongoing commitment that includes attendance at Council meetings during the year

Recognition: Equivalent to one SVSAE Doctoral School module

ADUM title after prior approval: SVSAE Member of the Doctoral School Council 202X

Evidence: The contribution is recognised directly by the Doctoral School because Council meetings are organised in close collaboration with its management team

Description

The Scientific Council brings together academic staff and other members who contribute to the scientific life of the Doctoral School. It decides on policies for allocating research grants, organising doctoral training and thesis monitoring committees, running the Doctoral School selection process, and implementing specific initiatives. Seats are reserved for doctoral candidates.