

Alignment Program MAS Cardiovascular Perfusion (Passerelle)

The Master in Cardiovascular Perfusion focuses on clinical-technical skills in invasive cardiac therapy and will enable you to develop and expand your competence as a clinical perfusionist.

The **MAS FH Cardiovascular Perfusion, EBCP accredited** program, enables you to train as a Cardiovascular Perfusionist at University level.

The full-time MAS CP consists of 14 modules with a total of 90 ECTS: **60 ECTS theory based modules** (9 modules of 5 ECTS each, MAS final module of 15 ECTS), 30 practical ECTS.

Passerelle program

Senior perfusionists looking for continuing education, with a focus on Research and Health Care Management, can apply to the Careum Passerelle program named "Alignment Program".

To qualify for the Alignment Program, the student must have:

- at least 50% ECTS regulatory theory credits from the regular MAS CP.
- successful completion of 30 practical ECTS with EBCP-Certificate.
- the MAS final dissertation is required from all students.

Fees: upon request / scan the QR Code



Careum 3, Gloriestrasse 18a, 8006 Zürich, Switzerland

Terms of Admission

- Completed training program in Perfusion and portfolio of further education and training.
- At least 5 years of successful employment as a perfusionist, evaluated through a written recommendation from a previous supervisor.
- Module "Research and Findings" for students without University education.
- Written application provided through the Application Dossier Kalaidos University, see <https://www.kalaidos-fh.ch/en-GB/Studiengaenge/MA-S-Master-of-Advanced-Studies-Cardiovascular-Perfusion>



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Module Curriculum Alignment MAS CP, 30 ECTS:

Variation 1: Perfusionist with EBCP-Certificate

- 1 theory based module Perfusion at 5 ECTS: Module 001 Medicine I
- 1 theory based module Perfusion at 5 ECTS: Module 009 Health Care Management
- 1 MAS dissertations module at 15 ECTS
- 5 ECTS acquired through alternatives (see: 'Alternative Routes 5 - 15 ECTS')

Variation 2: Long-standing perfusionist holding EBCP recertification not older than 2 years

- 1 theory based module Perfusion at 5 ECTS: Module 009 Health Care Management
- 1 MASTER Thesis at 15 ECTS
- 10 ECTS acquired through alternatives (ref. 'Alternative Routes 5 - 15 ECTS')

Terms of Admission:

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- Written application provided through the Application Dossier Kalaidos University (see <https://www.kalaidos-fh.ch/en-GB/Studiengaenge/MAS-Master-of-Advanced-Studies-Cardiovascular-Perfusion>)

Fees:
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Research Results	Medicine I	Health Care Economy	Applied Perfusion Science II	Masterthesis deadline October 2026
3	5	5	5	
	CP_001	CP_009	CP_007	
25.08.23	02.10.23	21.10.24	05.05.25	Oct 2025 - Oct 2026
02.09.23	03.10.23	22.10.24	06.05.25	
22.09.23	02.11.23	14.11.24	05.06.25	
	03.11.23	15.11.24	06.06.25	
	04.11.23	16.11.24	07.06.25	
Passerelle	Passerelle	Passerelle	Passerelle	Passerelle

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Content of Master of Advanced Studies in Cardiovascular Perfusion

Research Results: Findings and Evaluations

The application and implementation of evidence-based results in nursing care is increasingly encouraged and is becoming more and more popular. Important pre-requisites for the successful implementation of research results in practice are initially focused research and evaluation of the research work. Through the context of this module the students acquire the competence to deal with fundamental research literature and to use this acquired competence during the course of his or her studies to successfully deal with the confrontation with scientific issues.

Research Results
3

25.08.23
02.09.23
22.09.23

001 Medicine I

Patient support with a heart-lung or dialysis machine not only affects the circulatory system, but the entire human organism. Perfusionists are responsible for the extracorporeal circulatory support prior to, during, and following cardiac surgery as well as support activities involving dialysis or therapy for cardiac arrhythmia. This requires a thorough and in-depth knowledge of the circulatory system. Changes in the cardiac circulation have immediate effects upon other physiological systems of the body, which requires comprehensive knowledge of these systems in order to quickly identify correlations and initiate adequate control measures. This module will cover important diseases of the human organ systems in depth and point out the diagnostic and therapeutic possibilities.

Medicine I
5

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Content of Master of Advanced Studies in Cardiovascular Perfusion

007 Applied Perfusion Science II

The module "Applied Perfusion Science II" deals with four main topics: 1. Paediatric perfusion is a specialised area for perfusionists performing cardiopulmonary bypass (CPB), because children who need cardiac surgery are not just “small adults”: other clinical pictures and syndromes, other circulatory conditions and paediatric dimensions require additional knowledge. 2. Perfusion techniques such as autologous blood collection, haemodilution, reinfusion of collected blood through blood salvaging techniques using the Autotransfusion device (Cell Saver) can effectively lead to a reduction of blood loss and need for foreign blood products during surgery. 3. The management of patient temperature for hypothermic circulatory arrest can reduce the risk of neurological complications during surgery on the thoracic aorta, while on the other hand patient re-warming in cases of accidental hypothermia is still a life threatening challenge. 4. The use of extracorporeal circulation (ECC) is essential to the delivery of intra-peritoneal chemotherapy or continuous hyperthermic peritoneal perfusion (HIPEC).The advantage here is that HIPEC causes fewer side effects than intravenous chemotherapy, because there is very little systemic infiltration of the toxic chemotherapy.

Applied Perfusion Science II

5

CP_007

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009 Health Care Economy

The Swiss health system is facing major challenges: the increase in the number of older people is leading to the increase in chronic diseases, leading to rising health costs. Therefore the federal government has called for greater transparency and management of quality patient care. At the same time, according to the Health Insurance Act (KVG), it demands that services provided by care professionals must be effective, appropriate and economically delivered. This means that at all levels of medical treatment, quality management is needed, that provided care is ethically justifiable, legally correct and affordable for the promotion of safety, quality of life and equal opportunities. To this end, effective inter-professional collaboration through problem solving strategies, quality-oriented management, and clinical research form the important cornerstone.

Health Care Economy

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CP_009

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Content of Master of Advanced Studies in Cardiovascular Perfusion

Master Thesis Content Module

- Search for topics and formulation of the research question
- Literature research and theoretical framework
- Search and analyse literature
- Selected methods of data collection, documentation and evaluation: Expert interviews
- Writing and presentation of the proposal
- Writing the Master thesis

Masterthesis deadline
October 2026

Oct 2025 - Oct 2026

Please scan for more information or write an email to the following email addresses:



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