

CLINICAL PERFUSION

Degree Offered

Master of Perfusion Science (MPS)

Additionally, the CPE Program offers an online Masters of Perfusion Science (MPS) Degree Advancement Option (<http://www.unmc.edu/alliedhealth/education/online/mpsdao/>) (DAO) for those who have already completed a CAAHEP-accredited perfusion education program. DAO participants are part-time students and are allowed up to five years to complete a 17-hour curriculum.

Length of Program

The Clinical Perfusion Science Education (CPE) Program at UNMC is 21 months in length. Upon successful completion of the program, UNMC awards the Master of Perfusion Science degree, making graduates eligible for national certification. The first two semesters (Phase I) consist of didactic coursework with an introduction to perfusion science. The remaining 11 months (Phase II and III) consist of clinical rotations, a research project, and elective courses.

Degree Requirements

Graduation requirements include successful completion of the following:

1. Pass, with a greater than 73% grade, a comprehensive written objective test that focuses on problems encountered in the practice of clinical perfusion.
2. Complete thorough and comprehensive evaluations of different patients who are to undergo clinical perfusion. The student must be able to differentiate between abnormal and normal variations and to design a pump circuit that would meet the physiological needs of the patient undergoing surgery. Demonstrate through appropriate consultation with the faculty member that a suitable circuit has been selected and that the patient can be safely supported on cardiopulmonary bypass.
3. Meet all standards as established by the clinical competency committee.

Clinical Perfusion Website (<https://www.unmc.edu/alliedhealth/academics/programs/cpe/>)

Admissions & Tuition

Admissions

The mission of admissions in the College of Allied Health Professions is to advance evidence-based recruitment and admissions practices that are inclusive, equitable and balanced with respect to experiences, attributes and metrics to recruit and admit applicants for the purpose of preparing highly competent, collaborative and compassionate professionals dedicated to improving the health and healthcare of all individuals and communities.

For specific Clinical Perfusion admissions, application, and timelines, visit: **Clinical Perfusion Admissions**.

Tuition

UNMC Tuition Guide (<https://catalog.unmc.edu/general-information/tuition/>)

Financial Aid Website (<https://www.unmc.edu/student-success/financial-aid/>)

Curriculum

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Plan of Instruction

The program is 21 months in length.

Phase I

The first two semesters consist of clinical experience plus didactic course work that includes classes in clinical perfusion, pathology, pharmacology, research methodology, management, and electronics.

Phase II

The Summer Session, in between the first and second years, introduces the student to the applied aspects of extra-corporeal circulation through wet-lab experiences and simulated cardiopulmonary bypass procedures. During this semester the students also continue their clinical education at The Nebraska Medical Center.

Phase III

The remaining 8 months consist of clinical rotations (1 to 2 months in length) at outside clinical affiliate hospitals. Finalization of the student's research project is also completed.

Outside employment is discouraged during the the program. While every effort will be made to assist a student if a difficulty should arise due to classes or health, the student must complete the previous classes or rotations before advancing to the next semester.

First Year

Fall		Credit Hours
CLPR 502	INTRO PERFUSION TECHNOLOGY	2
CLPR 505	PERFUSION CONCEPTS I	4
CLPR 506	APPLIED CLINICAL PRACTICES	2
CLPR 702	PERFUSION SEMINAR I	1
CAHP 630	SCANNING HEALTH CARE ENVIRONMENT	3
CAHP 723	PRINCIPLES OF CRITICAL INQUIRY	2
PMI 690	BIOLOGY OF DISEASE	5
Credit Hours		19

Spring

CLPR 512	PERFUSION TECHNIQUES	2
CLPR 515	PERFUSION CONCEPTS II	4
CLPR 520	THESIS DEVELOPMENT	1
CLPR 703	PERFUSION SEMINAR II	1
CLPR 705	PEDIATRIC PERFUSION	3
CAHP 631	MANAGEMENT IN HEALTH CARE	3
PHAR 507	PHARMACOLOGY	5
Credit Hours		19

Summer

CLPR 501	ELECTRONICS & BIOMED MONITORING	3
CLPR 701	IN VITRO/IN VIVO LAB PROCEDURES	2
CLPR 708	JOURNAL REVIEW	1
CLPR 710	THESIS DEVELOPMENT II	1
CLPR 715	CLINICAL ROTATION PERFUSION I	5
CLPR 718	CLINICAL ROTATION PERFUSION II	5
Credit Hours		17

Second Year**Fall**

CLPR 711	THESIS DEVELOPMENT III	1
CLPR 720	CLINICAL ROTATION PEDIATRIC PERFUSION I	5
CLPR 722	PERFUSION SEMINAR III	1
CLPR 730	CLINICAL ROTATION PERFUSION III	5
CAHP 626	HEALTH CARE ETHICS AND CRITICAL THINKING	3
Credit Hours		15

Spring

CLPR 712	THESIS DEVELOPMENT IV	1
CLPR 723	PERFUSION SEMINAR IV	1
CLPR 725	CLINICAL ROTATION PEDIATRIC PERFUSION II	5
CLPR 735	CLINICAL ROTATION PERFUSION IV	5
Credit Hours		12
Total Credit Hours		82

Clinical Perfusion Website (<https://www.unmc.edu/alliedhealth/academics/programs/cpe/>)