



Master of Science in Cardiovascular Perfusion (MSCP)

Purpose

The Master of Science in Cardiovascular Perfusion Program is an allied health science program that educates and prepares students in the knowledge and skills necessary to conduct cardiopulmonary bypass and associated cardiovascular procedures including cardiac life support. Perfusionists work under the supervision of the cardiac surgeon and in accordance with the cardiac anesthesiologist. Students who graduate from this program will be eligible to sit for the two-part national certification examination through the American Board of Cardiovascular Perfusion (ABCP). Successful completion of the ABCP examinations awards the certification and title of Certified Clinical Perfusionist (CCP).

Mission

Our mission is to prepare students to become a proficient entry level cardiovascular perfusionist through the dissemination of evidence-based knowledge, scholarly activities, and diverse clinical experiences. Additionally, it is the mission of this program to elicit independent systematic thought processes through new scientific discovery and historical knowledge. Graduates from this program will be able to effectively integrate perfusion theory to clinical practice.

Program Goals

The MSCP program has identified goals that are as followed:

- Prepare competent entry level perfusionists in the cognitive (knowledge), psychomotor (skills), and affective (behavioral) learning domains


- Prepare students in critical thinking skills and problem-solving skills

- Prepare students for the American Board of Cardiovascular Perfusion licensing exams

- Provide students with perfusion theory an 261.29 Tm0 g0 G[Pr](rn)-5(in)-4(u1)8(rf)-5(u)-4(sio)8(n)-.t



Student Learning Outcomes



Tetanus, Diphtheria, Pertussis (T-DaP)- Vaccine within 10 years or TD/T-DaP booster within 10 years
Varicella (chickenpox)- Two dose vaccine or positive surface antibody titer
Hepatitis B - Two, three, or four doses or positive surface antibody titer
COVID-19 – Vaccine Documentation (clinical site dependent)
Health Insurance
Medical Examination

Background Check and Drug Screening

Students are required to use PreCheck/StudentCheck to purchase a criminal background check. In addition, most clinical sites require a drug screen. Documented proof of the background check and drug screen must be uploaded to PreCheck/ StudentCheck before the start of clinicals. These requirements are typically time sensitive and should not be completed before instructed to do so. These requirements begin at the end of the students second semester.

Program Retention and Graduation Requirements

1. Maintain an overall 3.0 GPA
2. Completion of all coursework with a B average or better
3. Successful completion and display of competent clinical skills and knowledge of at least 75 adult clinical cases and 5 ECMO/VAD procedures
4. Successful completion and display of competent clinicals skill and knowledge or observation of at least 10 pediatric clinical cases
5. All course work and clinicals are non-repeatable

Tuition

\$876/Credit hour (cr.)

Student Fees for Each of the Following Courses

Fall Semester

CVP 610 Extracorporeal Technology I

- \$700

CVP 630 Perfusion Simulation I

- \$450

Spring Semester

CVP 611 Extracorporeal Technology II

- \$700



CVP 631 Perfusion Simulation II

- \$450

Summer Semester

Clinical Rotation fee for Cleveland Clinic of Florida

- \$50

Clinical Rotation fee for Honor Health Arizona

- \$20

Curriculum

The MS Cardiovascular Perfusion Program is a five-semester program consisting of two semesters of in-class instructional learning and three semesters of clinical hands on training at various clinical affiliation sites. Each clinical rotation is 15 weeks in duration coinciding with NKU Summer, Fall, and Spring semesters.

First Year

Fall Semester (22 Credits)

CVP 600 Anatomy and Physiology in Perfusion (4cr)

CVP 602 Fundamentals in Perfusion Management I (2cr)

CVP 610 Extracorporeal Technology I (3cr)

CVP 620 Physiological Monitoring (5cr)

CVP 621 Pathophysiology in Perfusion (3cr)

CVP 630 Perfusion Simulation I (5cr)

Spring Semester (22 Credits)

CVP 601 Anatomy and Physiology in Perfusion II (3cr)

CVP 603 Fundamentals in Perfusion Management II (2cr)

CVP 611 Extracorporeal Technology II (3cr)

CVP 622 Surgical Technique (2cr)

CVP 623 Perfusion Pharmacological Intervention (4cr)

CVP 624 Pediatric Perfusion (3cr)

CVP 631 Perfusion Simulation II (5cr)

Second Year

Summer Semester (10 Credits)

CVP 680 Research Methods in Perfusion (2cr)

CVP 640 Special Considerations in Perfusion (2cr)

CVP 676 Clinical Practicum I (6cr)

Fall Semester (8 Credits)

CVP 686 Clinical Practicum II (6cr)

CVP 691 Perfusion Capstone I (2cr)

Spring Semester (8 Credits)

