



## 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 and clinical applications skills for safe and effective patient care
- Prepare students to communicate effectively and to work cooperatively and safely with a healthcare team to ensure safe and quality patient care



## Student Learning Outcomes

The student learning outcomes listed below are expressed with the intention to meet or exceed reWB/F2 14.04



year.





CVP 630 Perfusion Simulation I

- \$300

Spring Semester

CVP 611 Extracorporeal Technology II

- \$700

CVP 631 Perfusion Simulation II

- \$300

Summer Semester

Clinical Rotation fee for Cleveland Clinic of Florida only

- \$50

## 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)

- CVP 696 Clinical Practicum III (6cr)
- CVP 693 Perfusion Capstone II (2cr)

TOTAL CREDIT HOURS: 70