

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).

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.

1. Application for graduate admission and \$40 non-refundable application fee.
2. Completed a bachelor's or master's degree at a regionally accredited institution with a minimum cumulative GPA of 3.0 on a 4.0 scale. Please submit all official transcripts from undergraduate and graduate schools attended.
3. Successful completion of the following prerequisites, or equivalent courses, with a GPA of at least a 3.0 on a 4.0 scale in each course. Prerequisites should be completed within ten years of application.
 - General Biology with labs (8 credits) (e.g. NKU- BIO 150/L and BIO 151/L)
 - Microbiology with lab (4 credits) (e.g. NKU- BIO 202/L)
 - College Math (3 credits) (e.g. NKU- MAT 129 or STA 205)
 - Physics with lab (4 credits) (e.g. NKU- PHY 211/L)
 - General Chemistry with labs (8 credits) (e.g. NKU- CHE 120/L and CHE 121/L)
 - Anatomy & Physiology with labs (8 credits) (e.g. NKU- BIO 208/L and BIO 209/L)
 - Biochemistry (3 credits) (e.g. NKU- CHE 115/L)
4. Shadow a perfusionist required. Clinical patient care experience recommended.
 - Perfusion Shadowing form found on NKU Perfusion webpage
5. Three professional letters of recommendation
6. Letter of intent discussing why you wish to pursue a career as a cardiovascular perfusionist
7. CV or resume
8. Once all requirements are met within the application deadline, qualified applicants may be invited for an interview with the director and clinical coordinator prior to final decision of admission.

Upon admittance to the program, immunizations and document tracking are conducted through PreCheck. Before the start of the first semester, students are required to have the following proof of immunizations and health screening. Register for immunization tt

Medical Examination

1. Maintain an overall 3.0 GPA
2. Completion of all coursework with a B average or better
- 3.

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)

Summer Semester (10 Credits)

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