



# UNMC College of Allied Health Professions

## Clinical Perfusion Program Guide

Listed are MCC courses that satisfy the University of Nebraska Medical Center's Clinical Perfusion admission requirements.

For more information contact:

Office of Student Services  
**Metropolitan Community College**  
Elkhorn Valley Campus  
(402) 289-1205  
Fort Omaha Campus  
(402) 457-2705  
South Omaha Campus  
(402) 738-4505  
Sarpy County Center  
(402) 537-3800  
Fremont Center  
(402) 721-2507  
Applied Technology Center  
(402) 763-5800  
[www.mccneb.edu](http://www.mccneb.edu)

**University of Nebraska  
Medical Center**  
College of Allied Health Professions  
Academic & Student Affairs  
(402) 559-6673  
[cahpadmissions@unmc.edu](mailto:cahpadmissions@unmc.edu)  
[www.unmc.edu/alliedhealth](http://www.unmc.edu/alliedhealth)

The Clinical Perfusion program is a master's level program that requires students to complete a bachelor's degree. Students can earn a bachelor's degree in any area of interest (i.e. biology, business, music, nursing, nutritional science). Listed below are Metropolitan Community College courses that satisfy the University of Nebraska Medical Center's (UNMC) Clinical Perfusion specific admission requirements.

UNMC Admission Course Requirements	Metropolitan Community College Courses			Quarter Hours
<b>Biological Sciences</b> – Choose a min. of 18 qtr. hrs.	BIOS	1110	Biology I	5
12 semester hours (18 quarter hours) are required which may include laboratory sessions. Courses should emphasize body structure, development, tissue organization and function. Courses may include, but are not limited to, general biology, cell biology, microbiology, physiology, anatomy, zoology, histology, embryology, genetics and immunology.	BIOS	1120	Biology II	5
	BIOS	1130	Biology III	5
	BIOS	2150	Microbiology	6
	BIOS	2050	Genetics	4.5
	BIOS	2310	Human Anatomy and Physiology I	6
	BIOS	2320	Human Anatomy and Physiology II	6
<b>Chemistry</b> – Choose a minimum of 9 qtr hrs.	CHEM	1210&1211	General Chemistry: Parts I & II <b>OR</b>	6
6 semester hours of chemistry are required. Courses should emphasize physical principles and may include but are not limited to general chemistry, qualitative analysis, quantitative analysis, and organic chemistry.	CHEM	1212	General Chemistry: Accelerated	
	CHEM	1220	General Chemistry II	6
	CHEM	232ABC	Organic Chemistry IA, IB, IC	7.5
	CHEM	233ABC	Organic Chemistry IIA, IIB, IC	7.5
<b>Physics</b> – Choose a min. of 9 qtr. hrs.	PHYS	110ABC	Principles of Physics IA, IB, IIC	7.5
3 semester hours of physics including laboratory session are required. Courses may include general physics, quantum physics, or physics for life sciences.	PHYS	210ABC	General Physics IA, IB, IC	7.5
<b>Mathematics</b> – Choose a minimum of 4.5 quarter hours.	MATH	1420	College Algebra	5
3 semester hours (4.5 quarter hours) are required.	MATH	1430	Trigonometry	4.5

### What is Clinical Perfusion?

A Perfusionist is a skilled person, qualified by academic and clinical education, who operates extracorporeal circulation equipment during any medical situation in which it is necessary to support, or temporarily replace, the patient's circulatory or respiratory function (heart and lung machine). The perfusionist is also trained/educated in the administration of prescription blood products, anesthetic agents and drugs administered through the extracorporeal circuit.

### Career Opportunities

Perfusionists work in hospital settings, often in large cities, with the majority of their time spent in the operating room or intensive care unit. A typical work week consists of a 40-hour schedule with additional on-call rotations and overtime, allowing for at least one perfusionist to be available to cover emergencies 24 hours a day, seven days a week. Experienced perfusionists may find career opportunities working for companies who manufacture perfusion supplies and equipment. These individuals may be employed in research and development, or, in some cases, may be employed in marketing or sales. Perfusionists enjoy excellent starting salaries between \$65,000 and \$85,000.

### UNMC Program Notes

- The Clinical Perfusion program admits between ten and twelve applicants per year out of a pool of 40 to 50.
- Clinical Perfusion Education is a 21-month program that awards a Master in Perfusion Science after successful completion of all graduation criteria.
- The mean GPA of successful applicants is over 3.2 (on a 4.0 scale), and their GRE score is greater than the 50<sup>th</sup> percentile for verbal, quantitative and analytic writing sections.
- Admission into perfusion school is competitive and is not guaranteed. To be considered for admission, students must:
  - Complete the UNMC Online Application for Admission <https://unmc.liasoncas.com>
  - Submit one copy of official transcripts from all colleges attended, scores from the basic portion of the Graduate Record Examination (GRE), resume, essay and recommendations/evaluations
  - Complete three or more unique clinical observations and submit signed documentation confirming the completion of the observations. Observations can be arranged through the program.
  - Complete an interview on the UNMC campus with the Admissions Committee (if invited)