

# CLINICAL PERFUSIONIST

A Clinical Perfusionist utilizes the heart-lung machine during cardiac surgery as well as many other surgeries that require cardiopulmonary bypass. They are solely responsible for managing the patient's physiological status during such critical times.

## CAREER DESCRIPTION\*

- » National average salary: \$130,300
- » National projected career growth: 7%
- » Operate heart-lung machine, an artificial blood pump
- » Spend about 90% of their time in the operating room
- » Communicate with surgeons throughout procedures

## TYPICAL EDUCATION

- » Approximate Years of Schooling: 4-6\*\*  
-Includes 4-year degree plus training program
- » Approximate Tuition & Fees: \$40,015\*\*
- » Minimum entering GPA: 3.5\*\*\*
- » Certification required: CCP –2 part exam\*\*  
-PBSE & CAPE

## NEARBY SCHOOLS & CLASS SIZE

- » University of Nebraska Medical Center: 10
- » University of Iowa: 4
- » Rush University: 16

## COMPETITIVE APPLICANTS ALWAYS...

- » Earn a Bachelor's Degree
- » Maintain a strong GPA to remain competitive
- » Display strong academics in math and science courses
- » Shadow professionals in the field
- » Gain medical experience through volunteering or work

## WHAT PRACTICING PROFESSIONALS SAY



I enjoy the clinical perfusion education program at UNMC, because it allowed me to gain the absolute necessary education for a demanding profession in clinical perfusion.

-Dan Gillespie, UNMC Graduate



I chose the UNMC perfusion program for its superior clinical experience, which started the very first week, and continued beyond that to some pretty neat cities and hospitals.

-Kailin Bellows, UNMC Graduate

\*Data and information from Bureau of Labor Statistics & ZipRecruiter  
\*\*Data and information from American Board of Cardiovascular Perfusion  
\*\*\*Data and information from UNMC.  
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Click the links for requirements from the schools listed below:

[University of Nebraska Medical Center](#)

[University of Iowa](#)

[Rush University](#)

*Prerequisites vary by program. Students are responsible for ensuring all entrance requirements are met.*

UNMC Prerequisites

**Semesters Offered:**

S= Spring, F= Fall, M= Summer

**Recommended Biological Sciences (minimum credits: 12)**

Course	Credits		Prerequisites
BIOL 1450 – Biology I	5	S,F,M	High school Biology and Chemistry
BIOL 2140 – Genetics	4	S,F,M	BIOL 1450, 1750 & CHEM 1140 or 1180
BIOL 2440 – Biology of Microorganisms	4	S, F, M	High school Biology and Chemistry
BIOL 2740 – Human Physiology & Anatomy I	4	F,M	High school Biology and Chemistry
BIOL 2840 – Human Physiology & Anatomy II	4	S,M	BIOL 2740
BIOL 3020 – Molecular Biology of the Cell	3	F,S,M	BIOL 2140
BIOL 3240 – Introduction to Immunology	3	F,S	BIOL 1450, 1750 & 2140

**Recommended Chemistry (minimum credits: 6)**

CHEM 1180 & 1184 – General Chemistry I & Lab	4	S,F,M	MATH 1320 or CHEM 1140 & 1144
CHEM 1190 & 1194 – General Chemistry II & Lab	4	S,F,M	CHEM 1180 & 1184
CHEM 2250 – Organic Chemistry I	3	S,F,M	CHEM 1190 & 1194
CHEM 2260 & 2274 – Organic Chemistry II & Lab	5	S,F	CHEM 2250
CHEM 2400 & 2404 – Quantitative Chemical Analysis & Lab	5	F	CHEM 1190 & 1194
OR			
CHEM 1140 & 1144 – Fund of College Chemistry & Lab	5	S,F,M	
CHEM 2210 & 2214 – Fund of Organic Chemistry & Lab	5	S,F	
CHEM 3650 & 3654 – Fundamentals of Biochemistry & Lab	4	S,F	

**Recommended Mathematics (minimum credits: 3)**

MATH 1320 – Pre-Calculus Algebra	3	S,F,M	MATH 1220
MATH 1340 – Algebra & Trigonometry for Calculus	5	S, F,M	MATH 1220
MATH 1370 – Applied Algebra & Optimization	4	S,F, M	MATH 1220
MATH 1930 – Calculus for Life Sciences	3	F,S,M	MATH 1320
MATH 1940 – Calculus for Biomedicine	5	F	MATH 1320
MATH 1950 – Calculus I	5	S,F,M	MATH 1320 & 1330 or MATH 1340
BIOL 4110—Statistics for Biology	4	F	BIOL 1450 & BIOL 1750 and MATH 1220, 1130 or 1530

**Physics (minimum credits: 3)**

PHYS 1050 – Introduction to Physics	4	S, F	High School Algebra
PHYS 1110 – General Physics (Algebra)	4	S,F,M	MATH 1220
PHYS 2110 – General Physics (Calculus)	4	S,F,M	MATH 1950

Three (3) unique observation experiences are required.

*It is recommended that students take courses in chemistry, biology, mathematics beyond the required minimum.*