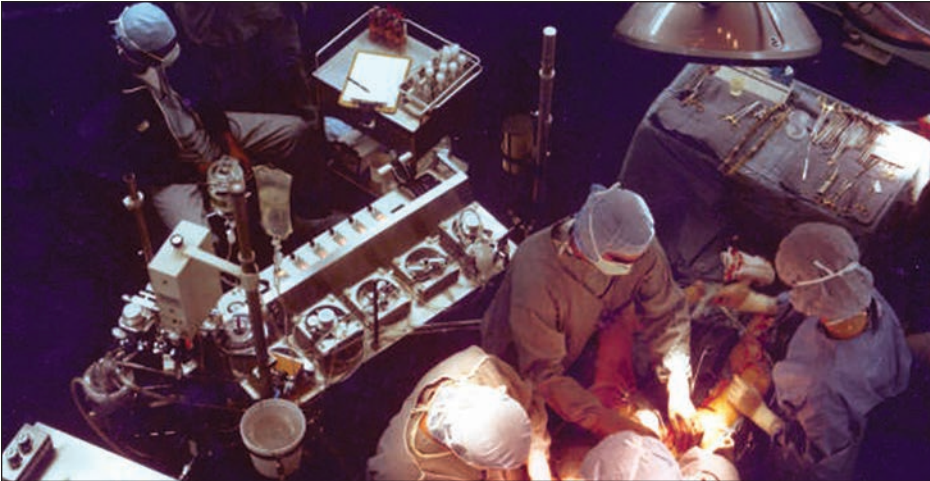


COLLEGE OF NATURAL AND SOCIAL SCIENCES

HEALTH SCIENCE



PRE-CARDIOVASCULAR PERFUSION HEALTH SCIENCE PRE-PROFESSIONAL PROGRAM

A perfusionist is a skilled allied health professional, trained and educated specifically as a member of an open-heart surgical team responsible for the selection, setup and operation of a mechanical device commonly referred to as the heart-lung machine. During open-heart surgery, the patient's heart is immobilized and cannot function in a normal fashion while the operation is being performed. The patient's blood is diverted and circulated outside the body through the heart-lung machine and returned again to the patient.



Responsibilities of a perfusionist:

- Operating the heart-lung machine during surgery
- Monitoring the altered circulatory process closely
- Keeping the surgical team fully informed
- Taking appropriate corrective action when abnormal situations arise
- Assisting in the conservation of blood and blood products during surgery
- Providing support to patient's circulation outside of the operating room

Advantages for health science students at UNK:

- Smaller class size
- Low student-to-faculty ratio
- Laboratory experiences
- Opportunities for student research
- Strong science preparation
- Academic advising
- Mentoring
- Shadowing programs
- Contact with local professionals
- Extensive health career course
- Health science seminar course
- Application process assistance
- Health Science Club
- Health Careers Fair

Alumni profiles

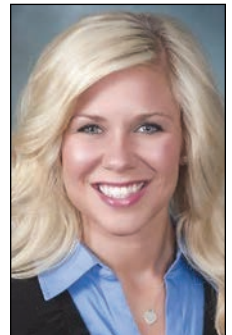
KOLE KUGLER, D.D.S.:

"I can honestly say that UNK provided me with exactly what I was looking for. The majority of my classes were in that 25-to 30-student range and most of my instructors knew me by name, which made my educational experience a very personable one. The class size and student-to-faculty ratio was a big deciding factor for me because I did not want to get lost in the shuffle." – Kole A. Kugler, D.D.S., UNK 2007, biology



JANAE (NIENHUESER) GREER:

"I had an older brother who was already attending UNK, so I was able to explore Kearney and UNK's campus and immediately felt the connection. UNK was able to provide me the opportunities and personal relationships to build an acceptable resume for physical therapy school. – Janae (Nienhueser) Greer, UNK 2010, exercise science, pre-physical therapy prerequisites; University of Nebraska Medical Center-Doctor of Physical Therapy Program



Benefits of health careers

- Secure and meaningful employment
- Opportunities for advancement
- Variety of jobs in different settings
- Chance to help people in need

**HEALTH SCIENCE PRE-PROFESSIONAL PROGRAM
Pre-Cardiovascular Perfusion**

SUGGESTED SEQUENCE OF KEY PREREQUISITE COURSES

Consult with your academic adviser.

Semester 1	Semester 2
CHEM 160 MATH See adviser for placement BIOL See adviser for placement	CHEM 161
Semester 3	Semester 4
BIOL 225 (recommended)	BIOL 226 (recommended)
Semester 5	Semesters 6, 7 and 8
PHYS 205	Complete final major courses

STUDENT PROFILES

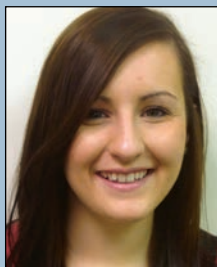


Holly Hartman

"I really like how easy it was to get involved in undergraduate research, and how many opportunities I have had through it. The professors are very willing to mentor undergraduate students." – Holly Hartman from Columbus, Neb., May 2016, pre-medicine

Rachel Gilliland

"I chose UNK because I loved the size of the campus. In high school I was involved in every activity offered, and I wanted to continue that in college. The size also meant that I would be able to get more one-on-one time with my professors and advisers. I now have a personal connection with a lot of them." – Rachel Gilliland from Wayne, Neb., May 2015, pre-optometry



Bill Westman

"What I like most about the health science department is the incredibly helpful staff and advisers. Biology is challenging, but the major makes me a more competitive applicant to graduate school." – Bill Westman from Kearney, December 2015, pre-physical therapy



Health Science Club

Members in Health Science Club would love to have you join!

- Be sure to check your LoperMail for the weekly edition of the Health Science Weekly newsletter that will include information on upcoming activities.
- Interested students can also **Like** UNK Health Sciences on Facebook to learn more about the organization.



Did you know?

More than 700 students are enrolled in Health Science programs at UNK.

That means, one of 10 Loper students are interested in health-related careers.

UNK has an excellent record helping health science students gain acceptance into professional schools or clinical programs.

For more than a decade, the overall acceptance rate of UNK students into various health programs has been approximately 70 percent.

Job shadowing leads to employment according to the U.S. Department of Labor.

Not only will you benefit from the on-the-job training and gain insight into a particular career, industry, or company, but you will also be mentored.

Learn more at
www.unk.edu/healthsciences

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