

# PRE-CARDIOVASCULAR PERFUSION

Offered by Health Science Programs (<http://catalog.unk.edu/undergraduate/departments-programs/health-science-programs/>)

*A candidate for admission to the Clinical Perfusion Education Program at the University of Nebraska Medical Center must have successfully completed a Bachelor's Degree and the following required courses. Students should check the specific school(s), other than the University of Nebraska Medical Center, to which they intend to apply to ensure that all admission requirements are fulfilled.*

**Competition to gain a place in perfusion school is intense and cannot be guaranteed.**

| Code | Title | Credit Hours |
|------|-------|--------------|
|------|-------|--------------|

## Required Courses

|                                   |     |
|-----------------------------------|-----|
| Select one the following options: | 7-8 |
|-----------------------------------|-----|

|                        |  |
|------------------------|--|
| BIOL 225<br>& BIOL 226 | Anatomy and Physiology<br>and Anatomy and Physiology |
|------------------------|--|

or

|                      |   |
|----------------------|---|
| BIOL 215<br>& PE 460 | Human Physiology<br>and Gross Anatomy of Movement |
|----------------------|---|

Take all of the following:

|                    |   |   |
|--------------------|---|---|
| BIOL 106           | Biology II  | 4 |
| BIOL 325           | Medical Terminology                                   | 1 |
| CHEM 160<br>& 160L | General Chemistry<br>and General Chemistry Laboratory | 4 |
| CHEM 161<br>& 161L | General Chemistry<br>and General Chemistry Laboratory | 4 |
| CHEM 351           | Biochemistry I  | 4 |
| PHYS 205<br>& 205L | General Physics I<br>and Physics I Laboratory         | 5 |

|                                    |      |
|------------------------------------|------|
| Take one of the following options: | 5-10 |
|------------------------------------|------|

|                    |  |
|--------------------|--|
| CHEM 250<br>& 250L | Fundamentals of Organic Chemistry<br>and Fundamentals of Organic Chemistry Lab |
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OR

|                    |   |
|--------------------|---|
| CHEM 360<br>& 360L | Organic Chemistry<br>and Organic Chemistry Laboratory |
|--------------------|---|

And

|                    |   |
|--------------------|---|
| CHEM 361<br>& 361L | Organic Chemistry<br>and Organic Chemistry Laboratory |
|--------------------|---|

|                              |     |
|------------------------------|-----|
| Select one of the following: | 3-5 |
|------------------------------|-----|

|          |                                   |
|----------|-----------------------------------|
| MATH 102 | College Algebra                   |
| MATH 103 | Plane Trigonometry                |
| MATH 115 | Calculus I with Analytic Geometry |
| MATH 123 | Applied Calculus I                |

|                              |   |
|------------------------------|---|
| Select one of the following: | 3 |
|------------------------------|---|

|          |                       |
|----------|-----------------------|
| STAT 241 | Elementary Statistics |
| PSY 250  | Behavioral Statistics |
| BIOL 305 | BioStatistics         |

## Recommended Electives

|                    |   |       |
|--------------------|---|-------|
| HSCI 225           | Introduction to Hematology                      |       |
| BIOL 211           | Human Microbiology                              |       |
| BIOL 309           | Cellular & Molecular Biology                    |       |
| BIOL 360           | Genetics  |       |
| BIOL 401           | Principles of Immunology                        |       |
| BIOL 465           | Physiology                                      |       |
| PHYS 206<br>& 206L | General Physics II<br>and Physics Laboratory II |       |
| Total Credit Hours |   | 40-48 |