

## PRE-HEALTHCARE ADVISING

Do you want to be a medical doctor, physician assistant, physical therapist, athletic trainer, occupational therapist, pharmacist, dentist or vet? If so, you'll take a lot of science courses to fulfill prerequisite for the programs. Below are the "typical" courses you will take. Always be sure to check the admission requirements of your preferred programs. Work with your advisor(s) and the health professions specialist in URGO to begin planning early.

### MEDICINE

- |   |  |
|---|--|
| <input type="checkbox"/> BIO 151 Introductory Biology           | <input type="checkbox"/> CHM 251 Organic Chemistry I                             |
| <input type="checkbox"/> BIO 152 Evolution, Ecology & Diversity | <input type="checkbox"/> CHM 252 Organic Chemistry II                            |
| <input type="checkbox"/> BIO 253 Intro to Cell Biology          | <input type="checkbox"/> MAT 163 or 164 Introductory Statistics                  |
| <input type="checkbox"/> BIO 255 Genetics                       | <input type="checkbox"/> PHY 107 College Physics I or PHY 121 General Physics I  |
| <input type="checkbox"/> BIO 369 Biochemistry                   | <input type="checkbox"/> PHY 108 College Physics II or PHY122 General Physics II |
| <input type="checkbox"/> CHM 115 General Chemistry I            | <input type="checkbox"/> PSY 105 Principles of Psychology                        |
| <input type="checkbox"/> CHM 116 General Chemistry II           | <input type="checkbox"/> SOC 121 Introduction to Sociology                       |

Many programs are moving away from the calculus requirement.  
Some programs may require a specific number of upper-division science electives  
Many programs may require an upper division writing-intensive course.

### PHYSICIAN ASSISTANT

- |  |   |
|--|---|
| <input type="checkbox"/> BIO 151 Introductory Biology                  | <input type="checkbox"/> CHM 115 General Chemistry I            |
| <input type="checkbox"/> BIO 152 Evolution, Ecology & Diversity        | <input type="checkbox"/> CHM 116 General Chemistry II           |
| <input type="checkbox"/> BIO 253 Intro to Cell Biology                 | <input type="checkbox"/> CHM 251 Organic Chemistry I            |
| <input type="checkbox"/> BIO 369 Biochemistry                          | <input type="checkbox"/> CHM 252 Organic Chemistry II           |
| <input type="checkbox"/> BIO 473 Animal Physiology                     | <input type="checkbox"/> MAT 163 or 164 Introductory Statistics |
| <input type="checkbox"/> BIO 476 Microbiology                          | <input type="checkbox"/> PSY 105 Principles of Psychology       |
| <input type="checkbox"/> Medical Terminology (not offered at Augsburg) | <input type="checkbox"/> PSY 203 Developmental Psychology       |

There is increasing variation in the psychology requirements among programs.  
Some programs may require Human Anatomy & Physiology full year rather than Animal Physiology. You can complete this requirement though the ACTC program.

### PHYSICAL THERAPY

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|--|--|
| <input type="checkbox"/> BIO 151 Introductory Biology                  | <input type="checkbox"/> MAT 114 Precalculus                                     |
| <input type="checkbox"/> A second rigorous biology course              | <input type="checkbox"/> MAT 145 Calculus  |
| <input type="checkbox"/> Human Physiology (not offered at Augsburg)    | <input type="checkbox"/> MAT 164 Intro Stats for STEM or PSY 215 Res. & Stats    |
| <input type="checkbox"/> Human Anatomy (not offered at Augsburg)       | <input type="checkbox"/> PHY 107 College Physics I or PHY 121 General Physics I  |
| <input type="checkbox"/> CHM 115 General Chemistry I                   | <input type="checkbox"/> PHY 108 College Physics II or PHY122 General Physics II |
| <input type="checkbox"/> CHM 116 General Chemistry II                  | <input type="checkbox"/> PSY 105 Principles of Psychology                        |
| <input type="checkbox"/> Medical Terminology (not offered at Augsburg) | <input type="checkbox"/> PSY 262 Abnormal Psychology                             |

Some programs may accept general anatomy and physiology, always check admissions requirements.  
A second rigorous biology course could be cell biology or microbiology.

### ATHLETIC TRAINING

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|---|--|
| <input type="checkbox"/> Human Physiology (not offered at Augsburg)       | <input type="checkbox"/> HPE 350 Kinesiology                                   |
| <input type="checkbox"/> Human Anatomy (not offered at Augsburg)          | <input type="checkbox"/> HPE 351 Physiology of Exercise                        |
| <input type="checkbox"/> HPE 104 Components of Fitness Training           | <input type="checkbox"/> HPE 357 Measurement in Health, Physical Educ & Ex Sci |
| <input type="checkbox"/> HPE 110 Personal and Community Health            | <input type="checkbox"/> CHM 115 General Chemistry                             |
| <input type="checkbox"/> HPE 114 Health and Safety Education              | <input type="checkbox"/> PSY 105 Principles of Psychology                      |
| <input type="checkbox"/> HPE 275 Prevention and Care of Athletic Injuries | <input type="checkbox"/> PHY 107 College Physics I (recommended)               |
| <input type="checkbox"/> HPE 300 Nutrition                                | <input type="checkbox"/> Medical Terminology (recommended)                     |
| <input type="checkbox"/> MAT 163 or 164 Introductory Statistics           |  |

## OCCUPATIONAL THERAPY

- Human Physiology (not offered at Augsburg)
- Human Anatomy (not offered at Augsburg)
- MAT 163 or MAT 164 Intro Stats or PSY 215 Res. & Stats
- PSY 105 Principles of Psychology
- PSY 203 Developmental Psychology
- PSY 262 Abnormal Psychology
- SOC 121 Introduction to Sociology
- Medical Terminology (not offered at Augsburg)

These are the prerequisites for the OT program at the University of Minnesota. Admission policies and prerequisites vary significantly by program.

## PHARMACY

- BIO 151 Introductory Biology
- BIO 152 Evolution, Ecology & Diversity
- BIO 253 Intro to Cell Biology or Advanced Biology
- BIO 353 Comparative Anatomy
- BIO 473 Animal Physiology
- BIO 476 Microbiology
- COM 111 or 115 Public Speaking
- ECO 113 Microeconomics
- CHM 115 General Chemistry I
- CHM 116 General Chemistry II
- CHM 251 Organic Chemistry I
- CHM 252 Organic Chemistry II
- MAT 114 Precalculus
- MAT 145 Calculus
- MAT 163 or 164 Introductory Statistics
- PHY 107 College Physics I & PHY 108 College Physics or PHY 121 General Physics I

Intro to Cell Biology may be able to count towards the advanced biology requirement, depending on if the requirement needs to be a 300 or 400-level course.

## DENTISTRY

- BIO 151 Introductory Biology
- BIO 152 Evolution, Ecology & Diversity
- BIO 253 Intro to Cell Biology
- BIO 369 Biochemistry
- CHM 115 General Chemistry I
- CHM 116 General Chemistry II
- Second composition or writing intensive humanities
- CHM 251 Organic Chemistry I
- CHM 252 Organic Chemistry II
- PSY 105 Principles of Psychology
- PHY 107 College Physics I or PHY 121 General Physics I
- PHY 108 College Physics II or PHY122 General Physics II
- College Algebra or MAT 114 Precalculus or MAT 145 Calculus or MAT 163 or MAT 164 Intro to Stats

Some programs might require statistics and a second math course.

## VETERINARY MEDICINE

- BIO 151 Introductory Biology
- BIO 152 Evolution, Ecology & Diversity
- BIO 253 Intro to Cell Biology
- BIO 369 Biochemistry
- BIO 476 Microbiology
- CHM 115 General Chemistry I
- CHM 116 General Chemistry II
- CHM 251 Organic Chemistry I
- CHM 252 Organic Chemistry II
- College Algebra or MAT 114 Precalc or MAT 145 Calc
- PHY 107 College Physics I or PHY 121 General Physics I
- PHY 108 College Physics II or PHY122 General Physics II
- COM 111 or 115 Public Speaking, or literature or advanced writing

Some programs might require statistics instead of algebra, precalculus or calculus