



**METROPOLITAN
STATE UNIVERSITYSM
OF DENVER**

Department of Nursing

MSU Denver TNO Prerequisite Courses

It's recommended all prerequisite courses have been completed within the prior 5-7 years. Success in your pre-requisite courses will improve your chances of being admitted to the TNO program. A 3.0 minimum overall GPA and pre-requisite GPA is required to apply to the Nursing program. For the Traditional Nursing Option, a cohort of 26 students are accepted. Points awarded for pre-requisite courses are among 3 factors that determine acceptance.

- GPA of pre-requisites
- HESI Exam
- MSU Credits

Points awarded for pre-requisite courses:

- GPA Point Value 4 points maximum award.
- When multiple attempts are made in pre-requisite courses, all graded attempts in the last nine semesters (since Spring 2019) will be included in the GPA calculation.
- Mid-term grades will be used to determine this criterion if completing any of the courses in the Fall semester. Do not take late start courses.
- Final grades will be used to confirm admission.

A&P I, A&P II, Pathophysiology, Microbiology, Nutrition, Human Growth & Development, Chemistry and Statistics

- 3.75 - 4.0 = 4 points
- 3.5 - 3.74 = 3 points
- 3.25 - 3.49 = 2 points
- 3.00 - 3.24 = 1 points

BIO 2310: Anatomy and Physiology I with lab* (4 credits)

This is the first of two courses addressing the structure and function of the human body. Topics include tissues, anatomy, the musculoskeletal system, and neurophysiology. (pre-req BIO 1080/1090)

BIO 2320: Anatomy and Physiology II with lab* (4 credits)

This is the second of two courses addressing the structure and function of the human body. Topics include endocrinology; circulation; and the respiratory, digestive, urinary and reproductive systems. (pre-req BIO 2310)



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ITP 4600: Clinical Pathophysiology (4 credits)

This course is designed to familiarize the student with the nature of human pathophysiology using major conceptual areas. Pertinent biochemical and metabolic derangements are correlated with the cellular structure by applying systems theory. The course focuses on the effects of the disease process on all of the major bodily systems, pathogenesis, and related clinical manifestations. (pre-req BIO 2320)

PSY 2210: Human Growth and Development (3 credits)

This course presents the development of behavior from conception through maturity and death and is intended to help the student understand the developmental characteristics of different age groups and the determinants of their individual and collective behaviors. (pre-req PSY 1001) Often referred to as Psychology over the Lifespan.

NUT 2040: Introduction to Nutrition (3 credits)

This course is designed to provide the student with an understanding of the fundamental concepts of human nutrition, including digestion, absorption, metabolism, and function of nutrients as they relate to human health and disease.

CHE 1100/1150: Principles of Chemistry (5 credits)

This course is a study of the fundamentals of chemistry. A survey of atomic structure, periodicity, bonding, nomenclature, stoichiometry, gas laws, and solution chemistry is provided for those students with no background in these areas. Plus lab (pre-req MTH 1110 or higher)

or CHE 1800/1801: General Chemistry I (5 credits)

A comprehensive study of the facts, concepts, and laws of chemistry. This course meets the requirements of students majoring in chemistry, medicine, medical technology, biology, physics and other fields requiring a strong background in chemistry. Students enrolling in this course should have successfully completed high school chemistry or equivalent coursework. Plus lab (pre-req MTH 1110)

MTH 1210: Introductory Statistics Course (4 credits)

This course is an introduction to the principles and techniques of descriptive statistics, probability, regression analysis, and statistical inference (estimation and tests of hypotheses). Students will work with data on problems related to their own interest or field of study. (pre-req appropriate test score)

or PSY 2310: Introduction to Statistics for Social and Behavioral Sciences (3 credits) -

This course applies basic statistics to measurement, analysis, and interpretation in psychology as well as other social and behavioral sciences covering distributions, probability, central tendency, variability, sampling distributions, and hypothesis testing.



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BIO 2400: General Microbiology with lab* (5 credits)

This is a one-semester introduction to the microbial world, including discussions of bacteria, Cyanobacteria, fungi, protozoans and viruses. (pre-req BIO 1080/1090, BIO 1081/1091, CHE 1100/1150) or BIO 2000: Intro to Microbiology for Nursing* (4 credits) - This course is a non-majors introductory microbiology course specifically for pre-nursing. It will not count toward a biology major or minor. This course emphasizes the interplay between microorganisms and humans including infectious diseases and the immune system and has an emphasis on the control of microbial growth, spread of microorganisms, and their ability to cause disease and circumvent the immune system and antimicrobials. (pre-req BIO 1080/1090, CHE 1100/1150)

*MSU Denver Biology department will accept during this COVID situation online lab courses.

In some cases, **additional courses may be needed prior to the required prerequisite courses.**