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# College of Health & Human Sciences: Bachelor of Science in Nursing (BSN)Traditional Nursing Option (TNO) Prerequisites and Degree Map

2025-2026 Catalog Year

## Nursing Prerequisite Courses

To enhance student success in the Nursing program, we recommend all prerequisite courses have been completed within the past 5 to 7 years

* **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)
* **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 the major bodily systems, pathogenesis, and related clinical manifestations. (pre-req: BIO 2320)
* **PSY 2210: Psychology of Human 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: PSY1001) 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 or co-req: college algebra course *or* appropriate math testing score)
**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: college algebra course *or* appropriate math test score)
* **MTH 1210: Introduction to Statistics (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 math course or 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.
* **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)
**or 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, BIO1081/1091, CHE 1100/1150)

# Pre-Nursing Sample Curriculum Plan

## First Semester (13 to 14 credits)

| Course | Credits |
| --- | --- |
| ENG 1010 Composing Arguments (Written Communication General Studies 1 of 2) | 3 |
| *Optional: ENG 1001 Writing Studio A* | *1* |
| College Algebra (MTH 1109, 1110, 1111,1112)\*\* (Quantitative Literacy General Studies Requirement) ***or***MTH 1210 Intro to Statistics (Quantitative Literacy General Studies Requirement) | 4 |
| PSY 1001 Introductory Psychology (Social & Behavioral Science General Studies Requirement 1 of 2) | 3 |
| Oral Communication General Studies Requirement (see catalog for options)\* | 3 |

## Second Semester (14 credits)

| Course | Credits |
| --- | --- |
| BIO 1080 General Biology I (Natural & Physical Science General Studies 1 of 2) | 3 |
| BIO 1090 General Biology Laboratory I | 1 |
| ENG 1020 Research and Argument Writing (Written Communication General Studies 1 of 2) | 3 |
| College Algebra (MTH 1109, 1110, 1111,1112)\*\* (Quantitative Literacy General Studies Requirement) ***or***MTH 1210 Intro to Statistics (Quantitative Literacy General Studies Requirement) | 4 |
| Social & Behavioral Science General Studies (2 of 2) (see catalog for options)\* | 3 |

## Third Semester (12 credits)

| Course | Credits |
| --- | --- |
| BIO 2310 Human Anatomy & Physiology I | 4 |
| CHE 1100 Principles of Chemistry\*\* (Natural & Physical Science General Studies 2 of 2) | 4 |
| CHE 1150 Principles of Chemistry Laboratory | 1 |
| Arts & Humanities General Studies (1 of 2) (see catalog for options)\* | 3 |

## Fourth Semester (12 credits)

| Course | Credits |
| --- | --- |
| PSY 2210 Psychology of Human Development | 3 |
| BIO 2320 Human Anatomy & Physiology II | 4 |
| BIO 2000 Introductory Microbiology for Nursing | 4 |
| CPD Course\*\*\* (suggestions: CPD 1300 Student Success, CPD 2300 Time Mgmt, CPD 2310 Stress Mgmt) | 1 |

## Fifth Semester (13 credits)

| Course | Credits |
| --- | --- |
| ITP 4600 Clinical Pathophysiology | 4 |
| NUT 2040 Introduction to Nutrition | 3 |
| Historical General Studies (see catalog for options)\* | 3 |
| Arts & Humanities General Studies (2 of 2) (see catalog for options)\* | 3 |

English and Math Placement determined by scores/high school grades

\*University Requirement: one general studies course must also meet the Global Diversity (GD) general studies requirement and one must meet the Ethnic Studies & Social Justice (ESSJ) graduation requirement

\*\*Students can qualify for **CHE 1100** by testing in (280 AAF) or by completing a College Algebra course (MTH 1109, 1110, 1112, or 1115). Students can choose one of those College Algebra courses based on their AAF score if they did not make 280:

210 or higher = MTH 1108 followed by MTH 1109 in a second semester
230 or higher = MTH 1111 along with MTH 1101 (lab) concurrently
235 or higher = MTH 1112
245 or higher = MTH 1110

\*\*\*CPD = Career and Personal Development, search for course descriptions in the Course Schedule or Academic Catalog