

## Accelerated Nursing Option Prerequisites Handout

**The Accelerated Nursing Option** is a second degree option for students who have a non-nursing baccalaureate degree. The curriculum is 17 months with 4-consecutive semesters, including summer. To be eligible to apply all students **must have completed a Bachelors degree and all pre-requisites must be completed before applying on-line to the Accelerated Nursing Option (ANO)**. Transcript documentation of successful completion of the following courses is required regardless of a previously earned academic degree (grade of C or better).

Minimum recommended GPA 2.5 in all pre-requisites.

- **Anatomy and Physiology I with lab** (MSU Denver – Dept. of Biology will not accept on-line lab courses). 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. Course content and level are designed for allied health science students and for human performance and sport or leisure studies majors. The MSU Denver Course to satisfy this requirement is BIO 2310.
- **Anatomy and Physiology II with lab** (MSU Denver – Dept. of Biology will not accept on-line lab courses). 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. Course content and class level are designed for allied health science students and for human performance and sport or leisure studies majors. The MSU Denver Course to satisfy this requirement is BIO 2320.
- **Clinical Pathophysiology** - 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. The Metro course to satisfy this requirement is ITP 4600).
- **General Microbiology with lab** (MSU Denver – Dept. of Biology will not accept on-line lab courses). This is a one-semester introduction to the microbial world, including discussions of bacteria, cyanobacteria, fungi, protozoans and viruses. The MSU Denver Course to satisfy this requirement is BIO 2400.
- **Introductory Statistics Course** - one of the following three courses are acceptable:
  - Mathematics - 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. The MSU Denver Course to satisfy this requirement is MTH 1210
  - Business Statistics – This is a course in the application of statistical inference and translation of quantitative data into information which can be used in business decision-making. This course will cover the topics of descriptive statistics, probability theory, probability distributions, sampling distributions, point estimates, confidence intervals, and tests of hypotheses, in the context of management decision-making skills needed by industry. The MSU Denver Course to satisfy this requirement is CIS 3300.
  - Psychology (Introduction to Statistics for Social and Behavioral Sciences) - 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. The MSU Denver Course to satisfy this requirement is PSY 2310.
- **Human Growth and Development**-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. The MSU Denver Course to satisfy this requirement is PSY 2210 or a psychology over the lifespan course, meets this course requirement.
- **Human Nutrition**– 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. The MSU Denver Course to satisfy this requirement is NUT 2040.

All pre-requisite courses should be completed within 5-7 years prior to applying to the program in order to enhance student success in the program.

Please contact MSU Denver Transfer Services Office @ 303-556-3774 for questions or transfer approval of all pre-requisite courses.

## Prerequisite courses for the Accelerated Nursing Option at MSU Denver

**Note:** Below is only a **suggested** course sequence. You must have your previous college transcripts evaluated for prerequisite courses at the Transfer Services Office in the Student Success Building room 180 or the appropriate academic department listed below.

### Semester 1

BIO 1080-3 General Biology I (only required for students who have not taken A&P)

BIO 1090-1 General Biology Laboratory I

PSY 2210-3 Psychology of Human Growth and Development (PSY 1001, completion of the General Studies requirements in Quantitative Literacy and either ENG 1010 or the General Studies requirement in Oral Communications)

**Statistics:** (few choices but only one course needed)

MTH 1210-4 Introduction to Statistics\* (need appropriate test scores or prerequisite course work) **OR**

PSY 2310-3 Introduction to Statistics for Social and Behavioral Sciences **OR**

CIS 3300- 3 Managerial Statistics (MTH 1320 or MTH 1410 and CIS 2010 are prerequisites)

### Semester 2

CHE 1100 & 1150-5 Principles of Chemistry (only required if students have not had chemistry in college)\* **Please see BIO 2400 note below before enrolling in this course.**

BIO 2310-4 Human Anatomy and Physiology I (BIO 1080 & 1090 are prerequisites)

NUT 2040-3 Introduction to Nutrition

### Semester 3

BIO 2320-4 Human Anatomy and Physiology II (BIO 2310 is a prerequisite)

BIO 2400-5 General Microbiology (\***BIO 1080 & 1090, BIO 1081 & 1091 & Chemistry, or permission of instructor are prerequisites-Please see Biology department before taking the prerequisites for this course\***)

### Semester 4

ITP 4600-4 Clinical Pathophysiology (BIO 2320 is a prerequisite).

## Academic Department Contact Information

Department	Prerequisite Courses	Location	Phone Number
<b>Biology</b>	BIO 2310; BIO 2320; BIO 2400	Science Building 2042	303-556-3213
<b>Health Professions</b>	NUT 2040; ITP 4600	West Classroom 239	303-556-3130
<b>Psychology</b>	PSY 2210; PSY 2310	Plaza Building 220	303-556-3205
<b>Other Departments</b>			
<b>Math</b>	MTH 1210 or other math & statistics courses	Science Building 1022	303-556-3208
<b>Computer Information Systems</b>	CIS 3300 or other Business Statistics Course	Administration Building 590	303-556-3122