

Listed below are the prerequisite requirements for application to the MS in Nutrition Sciences- LMDP track. Please note that these courses are UAB's equivalent to prerequisite requirements and that courses from other colleges/universities may have different course names or numbers. Underlined is the prerequisite topic area required of all applicants.

1) **Introductory Biology. 3 credit hours (minimum).**

a. **UAB Offers - Biology BY 101. Topics in Contemporary Biology. 3 Hours.**

Description: Selected topics in the current understanding of biological systems, ranging from humans to ecosystems. Particular focus on scientific issues such as human diseases, genetic engineering, emerging infectious diseases, environmental causes of disease, and climate change, as well as analysis of these issues as presented in print and electronic media.

2) **Physiology. 3 credit hours (minimum).**

a. **UAB Offers - Physiology BY 116. Introductory Human Physiology. 4 Hours.**

Description: Integrated functions of human cells, tissues, and organ systems.

**Prerequisite= BY 115. Human Anatomy. 4 Hours.**

Description: Principles of vertebrate structure with emphasis on gross and microscopic human anatomy. Survey of human embryology and evolution. Lecture and laboratory.

*Note: For universities in which Anatomy/Physiology I and II are offered, only Anatomy/Physiology I is required as a prerequisite for admissions.*

3) **Organic Chemistry. 3 credit hours (minimum).**

a. **UAB Offers - Organic Chemistry CH 107. Introductory Chemistry II. 3 Hours.**

Description: Fundamental organic and biochemistry. The second part of the chemistry sequence for non-science majors and nursing students. Covers concepts of organic chemistry and biochemistry. Emphasis on molecules involved in life processes. Writing assignments structured to build on scientific reasoning. Not applicable to a major or minor in chemistry. Quantitative Literacy is a significant component of this course.

**Prerequisites:** CH 105 or CH 115

b. **UAB Also Offers – Organic Chemistry CH 235. Organic Chemistry I. 3 Hours.**

Description: Structure, nomenclature, properties, and reactivity of compounds with various organic functional groups: alkanes, alkenes, alkynes, alkyl halides and alcohols. Emphasis on the mechanisms of organic reactions and problem solving. Concurrent enrollment in CH 235R Organic I Recitation required.

**Prerequisite:** CH 117

4) **Microbiology. 3 credit hours (minimum).**

a. **UAB Offers - Microbiology BY 261. Introduction to Microbiology. 4 Hours.**

Description: Cell structure and function, microbial genetics, viruses, and epidemiology and infectious disease. NOTE: Cannot be applied toward requirements for a biology major. Lecture and laboratory.

**Prerequisites:** BY 116 and CH 107 (see above)

5) **UAB's Introduction to Nutrition NTR 222. Nutrition and Health. 3 Hours.**

Introduction to principles of nutrition; essential nutrients and their relation to growth, maintenance, and optimal functioning of the body; dietary recommendations to promote wellness and prevent chronic disease.

*Note: This Introductory Nutrition Course (NTR 222 Nutrition and Health) is offered online every term of study (Fall, Spring, Summer).*

Additional information related to courses may be found via these UAB undergraduate course catalogs:

Biology- <http://catalog.uab.edu/coursedescriptions/by/>

Chemistry- <http://catalog.uab.edu/coursedescriptions/ch/>

Nutrition- <http://catalog.uab.edu/coursedescriptions/ntr/>

*Please note that taking these pre-requisite courses does not guarantee admission to the program, applicants must still go through the [Graduate School Application Process](#). Further, these courses do not count towards graduate credit for students enrolled in the MS in Nutrition Sciences programs. While NTR 222 is offered online, the sciences courses listed are not available online.*