

Nutrition and Dietetics

M.S. in Nutrition (<http://und-public.courseleaf.com/graduateacademicinformation/departmentalcoursesprograms/nutritiondietetics/nutd-ms>)

Courses

N&D 541. Biochemical and Physiological Basis of Nutrition: Macronutrients. 3 Credits.

Integration of the molecular, cellular, and physiologic aspects of macronutrient and energy metabolism in humans. Dietary energy, carbohydrates, fiber, lipids, proteins, nutritional interactions and metabolic consequences with emphasis on recent advances in macronutrient nutrition are explored. Prerequisites: Undergraduate or graduate biochemistry and physiology. F, even years.

N&D 542. Biochemical and Physiological Basis of Nutrition: Micronutrients. 3 Credits.

Integration of the molecular, cellular, and physiologic aspects of vitamin and mineral metabolism in humans. Functions, biological availability, hormonal regulation, requirements, metabolic consequences of deficiencies or excesses, and interrelations with other nutrients with emphasis on current topics related to vitamins, minerals and phytochemicals. Prerequisites: Undergraduate or graduate biochemistry and physiology. S, odd years.

N&D 543. Advanced Topics in Lifecycle Nutrition. 3 Credits.

The course focuses on current and evolving research relating to the physiological changes and nutritional needs throughout the lifecycle. The course will also explore common nutrition-related conditions at each phase of the lifecycle, with emphasis on nutrition strategies to prevent and manage these conditions. On demand.

N&D 544. Obesity and Eating Disorders. 3 Credits.

The course examines the obesity epidemic, eating disorders, and prevention and treatment approaches at multiple levels: individual, social, environmental, and policy. Obesity, anorexia nervosa, bulimia nervosa, binge eating, and disordered eating will be discussed and evidence-based interventions explored with emphasis on role of the nutritionist as part of an inter-professional care team. Prerequisite: Admission to the program. On demand.

N&D 545. Nutrition in Disease Prevention and Wellness. 3 Credits.

An exploration of prevention and wellness models specifically designed to decrease the mortality and morbidity of chronic disease in the United States population. The course focuses on the involvement of optimal nutritional health in prevention of disease and promotion of wellbeing. Prerequisite: Admission to the program. On demand.

N&D 550. Nutrition Education and Program Planning. 3 Credits.

Theoretical, research and applied aspects of adult nutrition education. Curriculum design models, instructional tools, program planning and evaluation of education interventions will be discussed in the context of chronic disease prevention. Effective teaching strategies and procedural models for designing effective nutrition education programs targeting the general public will be presented. Prerequisite: Permission of Instructor. F, odd years.

N&D 552. Professional Nutrition Precepting. 1 Credit.

This course provides both didactic content and opportunities for nutrition professionals to become effective preceptors of nutrition/dietetics students. Under the direction of faculty, dietitians and nutritionists will precept undergraduates in supervised practice settings. S/U grading. On demand.

N&D 553. Nutritional Health Advocacy and Policy. 3 Credits.

An analysis of U.S. public policy processes in relation to food and nutrition, with emphasis on the role of the nutrition professional in influencing the public policy process and advocating for food policies. 3 graduate credit hours. Prerequisite: Admission to the program. On demand.

N&D 554. Nutrigenomics. 3 Credits.

This course explores the interactions between nutritional factors, genomics, and health. The course also explores the potential roles of the nutrition professional in developing personalized dietary prescriptions to optimize health, reduce disease risk, or improve management of chronic disease. Prerequisites: Undergraduate courses in biochemistry or advanced nutrition and human physiology. On demand.

N&D 555. Small Grant Proposal Development. 1 Credit.

Development of small grant proposals to support nutrition-related program planning and research studies. Prerequisite or Corequisite: ND 551 or N&D 594.

N&D 560. Nutrition Counseling. 3 Credits.

Theoretical methods and applied skills in counseling will be explored. The relationship between specific theories and their application to case studies will ensure students adapt counseling to meet individual needs based on diverse backgrounds and across age groups. Prerequisite: Admission into the program. S, even years.

N&D 590. Directed Studies in Nutrition. 1-4 Credits.

Designed to meet the needs of an individual student or a small group of graduate students. Course content will be based on the interests and needs of the student(s) in consultation with the faculty member's area of specialization. Prerequisite: Consent of the instructor. Repeatable to 4 credits.

N&D 591. Seminar in Nutrition. 1 Credit.

Discussion of current research and evidence-based practice in nutrition. Practice of oral presentation of scientific data in a professional setting. On demand.

N&D 594. Research Methods in Nutrition. 3 Credits.

The course examines the scientific foundation of nutrition research and critiques nutrition research. Students develop a research proposal. Prerequisites: Graduate statistics and admission into the program. S, even years.

N&D 596. Nutrition Education and Counseling Practicum. 2 Credits.

A block of supervised practice experiences working with diverse populations in a nutrition clinic focusing on the development of advanced nutrition education counseling skills. Students will develop both group and individualized client-centered counseling approaches. Practicum is taken near completion of graduate coursework. Prerequisites: N&D 560, a minimum of 20 credits in graduate program, and declared specialization of nutrition education and counseling. Repeatable to 4 credits. SS, even years.

N&D 997. Independent Study. 1-2 Credits.

Designed to meet the needs of an individual student or a small group of graduate students. Course content will be based on the interest and needs of the student(s) in consultation with the faculty member's area of specialization. Prerequisite: Consent of Instructor. On demand.

N&D 998. Thesis. 1-4 Credits.

A scholarly research project written under the mentorship of the student's advisor. Credit is given upon successful meeting of thesis requirements for the master's degree. Prerequisite: Consent of the instructor. Repeatable to 4 credits. On demand.

Undergraduate Courses for Graduate Credit

N&D 350. Medical Nutrition Therapy I. 2 Credits.

The study and application of nutritional assessment techniques, nutrition care planning methodologies, interviewing and counseling skills, and medical nutrition therapy for common medical conditions. Prerequisite: ND 245 and PPT 301. F.

N&D 450. Medical Nutrition Therapy II. 3 Credits.

The study and application of nutritional intervention principles and medical nutrition therapy for complex medical conditions. Prerequisites: N&D 350 and N&D 441. F.