NUTRITION AND DIETETICS (NTD)

College of Health Sciences

Courses

NTD 199. Transfer Credit Electives. 1-15 Credits.
Transfer Electives.
Typically offered in Fall, Spring & Summer.
Repeatable for Credit.

NTD 200. Nutrition and Culture. 3 Credits.
Students will increase awareness of the connection between health outcomes, diet and nutrition, and socio-cultural influences. Course studies will lay a foundation for understanding why people eat the foods that they do. A bio-cultural framework is applied to examine how individual dietary habits, choices, and nutritional health outcomes are influenced by social structure, historic patterns and events, and cultural beliefs and ideology. Students explore food ways, food scripts, health beliefs and practices, demographic characteristics, and population health across diverse communities within the United States. The course also employs a critical analysis of macro-structural inequalities, societal stresses, and cultural norms that alter access and availability to healthy foods and disparately undermine the nutritional health of some populations.
Gen Ed Attribute: Diversity Requirement.
Distance education offering may be available.
Typically offered in Fall, Spring & Summer.

NTD 203. The Dietetic Profession. 1 Credit.
This is an introductory course for nutrition and dietetics majors to orient them to the profession of dietetics and the nutrition and dietetics curriculum. Topics such as West Chester University academic policies, the dietetics curriculum, careers in dietetics, post-secondary options, professional ethics, designing a professional portfolio, career mentoring, and volunteer and paid experiences relevant to the profession will be covered.
Typically offered in Fall & Spring.

NTD 205. Principles of Food Selection and Preparation. 3 Credits.
A nutritionally based study of the basic principles of food selection and preparation with an emphasis on food safety. Course includes a comparative study and integration of convenience food and traditionally prepared food, enhanced by an experiential lab component.
Typically offered in Fall, Spring & Summer.

NTD 300. Nutrition Pedagogy. 3 Credits.
This course provides the knowledge and skills necessary to develop and teach K-12 nutrition education lessons and curricula.
Typically offered in Spring.

NTD 301. Consumer Nutrition. 3 Credits.
Consumer approach to the roles foods and nutrition play in improving the quality of our lives, socially, physically, mentally, and emotionally.
Typically offered in Fall, Spring & Summer.

NTD 303. Introductory Principles Human Nutrition. 3 Credits.
This course introduces students to the biochemical, physiological, and microbiological basics of human nutrition. Topics include dietary guidelines; digestion, absorption, metabolism, and use of carbohydrates, lipids, and proteins; food sources and functions of vitamins and minerals; and the relationship between nutrition and health.
Distance education offering may be available.
Typically offered in Fall, Spring & Summer.

NTD 304. Global Nutrition. 3 Credits.
This course is designed to examine the nature and scope of major nutritional issues and problems throughout the world, with an emphasis on developing countries. It includes consideration of specific nutrient deficiencies, as well as nutrition-related aspects of infectious and chronic disease. The role of food availability, food supply distribution and world food production in relation to nutrition and health will be discussed in the context of socioeconomic development and current economic policies and realities.
Typically offered in Fall & Spring.

NTD 305. Vegetarian Nutrition. 3 Credits.
This course will apply basic human nutrition principles to plant-based dietary approaches, addressing both the health-promoting aspects of vegetarianism and concerns about nutritional adequacy at all stages of the life cycle. A variety of vegetarian food preparation methods will be demonstrated and students will participate in meal planning as well as taste testing recipes.
Pre / Co requisites: NTD 305 requires a prerequisite of NTD 303.
Typically offered in Spring.

NTD 309. Nutrition Throughout the Lifecycle. 3 Credits.
A study of nutritional needs and dietary concerns of people from conception to old age.
Pre / Co requisites: NTD 309 requires prerequisite of NTD 303.
Typically offered in Fall & Spring.

NTD 310. Nutrition Research. 3 Credits.
This course focuses on the process of research and statistical analysis and interpretation as it relates to nutrition and dietetics. Topics such as the foundation and ethics of research, research questions and hypotheses, research designs, statistical analysis and interpretation, evidence analysis, systematic reviews, and evidence based practice will be addressed. Practical projects will be assigned, such as article analysis, a small research project, and data analysis using SPSS.
Competence in reading, understanding, and analyzing research articles is the main goal of the course.
Pre / Co requisites: NTD 310 requires prerequisite of MAT 121 with a grade of C or better; and NTD 303 with a C or better.
Typically offered in Fall & Spring.

NTD 311. Current Topics in Dietetics. 2 Credits.
This course addresses timely and current topics in dietetics in an evidence-based way. Different topics are covered as they have current relevancy.
Pre / Co requisites: NTD 311 requires a prerequisite of NTD 309.
Repeatable for Credit.

NTD 315. Food - Mind - Spirit. 3 Credits.
A study of the role of food and nutritional status in mental health, mood and memory, and overall well-being throughout the life cycle. Additional topics include nutrients and neurotransmission, appetite regulation and disordered eating, the gut-brain axis, and herbal supplements. Mindful eating, traditional food belief systems, and dietary practices of major religions are also reviewed.
Pre / Co requisites: NTD315 requires prerequisite of PSY100 and NTD303.
Typically offered in Fall & Spring.

NTD 320. Strategies in Dietetics Education. 3 Credits.
Practical study of theories of teaching and learning, health behavior change, program planning, and educational strategies as they relate to the field of dietetics. Presentation preparation and delivery will also be covered.
Pre / Co requisites: NTD 320 requires prerequisite of NTD 309.
Distance education offering may be available.
Typically offered in Fall & Spring.

NTD 400. Clinical Nutrition Assessment. 3 Credits.
The goal of this class is for the student to understand the profession and practice of nutrition and dietetics, nutrition and physical assessment and the nutrition care process. Classroom and simulated experiences in clinical issues, nutritional assessment, planning, implementing nutritional care, and documenting in medical records will be completed. Students will also be introduced to medical terminology and abbreviations. Nutritional assessment methods will be applied to evaluating nutritional status in the individual.
Pre / Co requisites: NTD 400 requires prerequisites of NTD 309, BIO 269, and CHE 310.
Typically offered in Fall & Spring.

NTD 408. Food Science. 3 Credits.
A study of the chemical, physical, and biological characteristics of food and the effects of processing, storage, and preservation on the structure, composition, palatability, and nutritive value of food. Sensory evaluation techniques and application of the scientific method are integral to this course.
Pre / Co requisites: NTD 408 requires prerequisites of C or better in CHE 310 and NTD 205 and NTD 303.
Typically offered in Spring.
NDT 409. Professional Skills in Dietetics. 3 Credits.
A focus on the development of nutrition counseling and communication/media technology skills. An appreciation of multiculturalism will be promoted. A familiarization with dietetics-related professional organizations, graduate school opportunities, and dietetic internships will be provided. Assistance with the dietetic internship and graduate school application process will be given.
Pre / Co requisites: NTD 409 requires prerequisite NTD 309.
Gen Ed Attribute: Writing Emphasis.
Typically offered in Fall.

NDT 410. Quantity Food Production. 3 Credits.
A basic course in quantity food production. Emphasis is placed on the essentials of operating a foodservice facility - menu planning, purchasing, storage, issuing, food production, service, distribution, quality control, and food safety.
Pre / Co requisites: NTD 410 requires a prerequisite of NTD 205.
Distance education offering may be available.
Typically offered in Fall.

NDT 411. Advanced Human Nutrition I. 3 Credits.
In-depth examination of the digestion, transport, and metabolism of carbohydrates, lipids, and proteins. Special emphasis is placed on metabolic interrelationships and hormonal control of the three processes mentioned above.
Pre / Co requisites: NTD 411 requires prerequisites of a C or better in BIO 100, BIO 259 and BIO 269; and a C or better in CHE 230, CHE 310, and NTD 309.
Typically offered in Fall & Spring.

NDT 412. Advanced Human Nutrition II. 3 Credits.
In-depth examination of the digestion, transport, and metabolism of vitamins, minerals, and water. Special emphasis is placed on digestive and metabolic interrelationships and hormonal control.
Pre / Co requisites: NTD 412 requires a prerequisite or co-requisite of NTD 411.
Distance education offering may be available.
Typically offered in Fall & Spring.

NDT 413. Medical Nutrition Therapy I. 3 Credits.
The goal of NTD 413, Medical Nutrition Therapy I, is for the student to understand the nutrition care process as it applies to disease management, develop a variety of disease specific case studies, and the process for determining the appropriate disease or health condition specific nutrition intervention. Students are expected to integrate nutritional assessment information, drug-nutrient interaction data, disease pathophysiology, and Medical Nutrition Therapy principles to design nutrition care plans and applying disease specific medical terminology and abbreviations.
Pre / Co requisites: NTD 413 requires prerequisites of NTD 400 and NTD 412.
Typically offered in Fall.

NDT 414. Medical Nutrition Therapy II. 3 Credits.
The goal of NTD 414 Medical Nutrition Therapy II, is for the student to apply the nutrition care process and MNT principles to critical and acute disease management including fluid/electrolyte/acid-base balance, nutrition support, nutritional therapy in critical care, oncology, pulmonary diseases and musculoskeletal, immunological diseases. The student will develop a variety of disease specific case studies and nutrition interventions. Students are expected to integrate nutritional assessment information; drug-nutrient interaction data, disease pathophysiology, and Medical Nutrition Therapy principles to design nutrition care plan and apply medical terminology and abbreviations.
Pre / Co requisites: NTD 414 requires a prerequisite of NTD 413.
Typically offered in Spring.

NDT 415. Community Nutrition. 3 Credits.
A study of the community nutrition programs and services at all levels of development. Course covers nutrition program planning, implementation, and evaluation; socioeconomic and cultural context of programs and services; an examination of the political and legislative process as it relates to nutrition legislation; and the role of the community nutritionist.
Pre / Co requisites: NTD 415 requires prerequisite of NTD 320.
Typically offered in Fall & Spring.

NDT 416. Food Service and Nutrition Systems Management I. 3 Credits.
A study of the organization and administration of foodservice systems and the functions and responsibilities specific to management: decision making, planning, organizing, and staffing. Management of human resources, food, materials, capital, facilities, and markets as related to various hospitality management systems will be examined.
Pre / Co requisites: NTD 416 requires prerequisite of NTD 410.
Distance education offering may be available.
Typically offered in Fall.

NDT 417. Food Service and Nutrition Systems Management II. 3 Credits.
A study of the organization and administration of foodservice and nutrition systems as well as the functions and responsibilities specific to management; leading, controlling operations, budgeting, and marketing. Management of human resources, food, materials, capital, facilities, and markets as related to various hospitality systems will be examined.
Pre / Co requisites: NTD 417 requires a prerequisite of NTD 410.
Distance education offering may be available.
Typically offered in Spring.

NDT 420. Perspectives on Obesity. 3 Credits.
This course explores the prevalence, origins, assessment, treatments, policy issues, and preventive strategies relative to obesity. The issue disordered eating is introduced, with a special emphasis on Binge Eating Disorder.
Pre / Co requisites: NTD 420 requires a prerequisite of NTD 303.
Typically offered in Fall, Spring & Summer.

NDT 422. Nutrition for Health, Fitness & Sport. 3 Credits.
Study of nutrition and its effects on health, development, and performance; sound nutrition guidelines for optimal health and physical performance; energy and energy pathways as keys to physical activity; nutrients relative to health and physical performance; dining away from home; substances proposed to enhance performance; body composition and weight control.
Pre / Co requisites: NTD 422 requires prerequisite of NTD 303.
Typically offered in Fall, Spring & Summer.

NDT 435. Nutrition Workshops. 3 Credits.
Special workshops on contemporary nutrition and food service related problems and issues. Topics announced at times of offering.
Typically offered in Fall, Spring & Summer.
Repeatable for Credit.

NDT 455. Nutrition Assessment, Education and Service in Honduras. 3 Credits.
This course offers an interprofessional service-learning approach to clinical screenings and assessments, client/community education, and health related service in communities in underdeveloped or developing countries. Students gain exposure to the cultures of communities in underdeveloped or developing countries, thus enhancing the students’ cultural competence.
Pre / Co requisites: NTD 455 requires a prerequisite of NTD 303.
Consent: Permission of the Department required to add.
Typically offered in Fall & Spring.