The following table shows the planned course offerings for the 2015 – 2016 academic year. Course offerings are subject to change.

### NUTN 500 – COMMUNITY OUTREACH PROJECTS

1 credit, fall term; 1 credit, winter term

Instructor: Jeri Greenberg, MS, RD, LD

The Dietetic Internship Program’s unique concentration is Community Outreach. To fulfill this concentration, students address a food or nutrition need in the community, engage the necessary community partners, design a project to address the need, and implement the project. During summer term, students are introduced to the project guidelines, meet their project mentor, and outline the project’s goals and objectives. Detailed project proposals are written as part of another course, NUTN 510 in fall term. During winter term, students implement their community outreach projects, summarizing and evaluating the outcome.

### NUTN 502 – INDEPENDENT STUDY

Credits variable, all terms

Instructor: Diane Stadler, PhD, RD, LD

Topic to be determined by student’s course of study
NUTN 504 — SUPERVISED PRACTICE ROTATIONS

3 credits, summer term; 6 credits per term, fall/winter/spring terms

Instructor: Sara Wolfe, MS, RD

Supervised Practice provides students with experience in community, food service management, clinical, and advanced practice settings. Students practice and apply principles and skills in dietetics and nutrition to real situations under the guidance of professionals in the field. Student choice rotations take place in spring term. Evaluations by preceptors follow competencies defined by the Accreditation Council for Education in Nutrition and Dietetics. Supervised Practice occurs during summer and fall terms for public health and food service management; winter and spring terms focus on clinical rotations and clinical staff experience. Students are required to complete a minimum of 1200 hours of supervised practice over the course of the program.

NUTN 505 — READING & CONFERENCE

1 credit, fall term

Instructor: Diane Stadler, PhD, RD, LD

A professional book club series is sponsored each year for students of the GPHN, faculty, preceptors and members of the community. Three nutrition-related books are read and discussed. Books selected for discussion provide a balanced depiction of a nutrition-policy issue, a nutrition-ethics issue, and/or a nutrition-history or current nutrition trend. Students enrolled in this course work in small groups to host one of the book club discussions by preparing a list of discussion questions, designing an informative flyer to announce the book and the session, marketing the discussions sessions to interested parties, inviting guest speakers and introducing the topic.

NUTN 507 — SEMINAR

1 credit, winter term

Instructor: Diane Stadler, PhD, RD, LD

Each seminar series is centered on a nutrition-related theme and provides students an opportunity to use traditional methods to present an evidenced-based review of a related topic. Students write an abstract, develop learning objectives, and give an oral presentation of their topic using PowerPoint or another visual media platform. In addition, each student hosts one of the presentations and provides peer editing of each abstract, peer critique of each presentation, and actively participates in each discussion.
NUTN 510 – PUBLIC HEALTH NUTRITION

3 credits, fall term

Instructor: Jeri Greenberg, MS, RD, LD

NUTN 510 provides an overview of public health nutrition, including a discussion of key nutrition assistance programs, and several local, county and state agencies and organizations aimed at improving the health of Oregonians. The course also explores best practices in nutrition education and counseling, including theories of behavior change and the use of motivational interviewing.

NUTN 511 – PATHOPHYSIOLOGY AND MEDICAL NUTRITION THERAPY

4 credits, winter term

Instructor: Julie McGuire, MS, RD, LD

NUTN 511 provides an overview of the pathophysiology of common chronic diseases and disorders, and the application of medical nutrition therapy. Topics may include diabetes, cardiovascular disorders, disorders of the upper and lower GI, and neonatal and pediatric nutrition therapy. In this series of classes, a number of speakers will share their areas of expertise by serving as guest lecturers. The course will be composed of formal lecture, small group activities, and facilitated discussions.

NUTN 512 – ADVANCED PATHOPHYSIOLOGY AND MEDICAL NUTRITION THERAPY

3 credits, spring term

Instructor: Julie McGuire, MS, RD, LD

NUTN 512 builds upon the nutrition fundamentals covered in NUTN 511 while focusing on more complex conditions such as metabolic disorders, trauma, burns, oncology, and organ transplantation.

NUTN 513 – FOOD SERVICE AND CLINICAL MANAGEMENT

2 credits, summer term

Instructor: Joy Petterson, MS, RD

This course is designed to provide students with strategic application of principles of Food Service and Clinical Management. It will be primarily focused on the areas of finance (with the creation of a budget), human resources (through critical incident and role-play), sustainability (through guest lectures and discussion), communication strategies (through email and other media), and needs assessment (through critical incident and role-play). As a term project, students will complete a feasibility study for a product, program or service.
NUTN 514 – NUTRITION RESEARCH AND SCIENTIFIC COMMUNICATION

3 credits, fall term

Instructors: Diane Stadler, PhD, RD, LD

The goal of this class is to introduce students to the nutrition research process, to provide an opportunity to develop and conduct a guided research project, and to provide an opportunity to present their results in multiple formats to their peers and other nutrition professionals.

NUTN 515 – CASE STUDIES IN ADVANCED MEDICAL NUTRITION THERAPY

2 credits, spring term

Instructor: Jessie Pavlinac, MS, RD, CSR, LD

Students research and present a case study that demonstrates the nutrition care process for a chosen disease with nutrition implications. Students select a patient during supervised practice and develop a case study presentation using evidence-based guidelines, incorporating pathophysiology, nutrition assessment, diagnosis, intervention, monitoring, and evaluation.

NUTN 516 – NUTRITION PHYSICAL EXAMINATION

4 credits, spring term

Instructors: Julie McGuire, MS, RD, LD

The nutrition-focused physical exam (NFPE) is presented as an integral part of the Nutrition Care Process and Model (NCPM). Findings of the NFPE are considered in the context of other nutrition assessment information, including biochemical data, food/nutrition-related history, anthropometric measurements, and client history. Cases seen during weekly round sessions at the OHSU Hospital provide the clinical context for classroom discussions.

NUTN 517 – LABORATORY METHODS IN NUTRITION

3 credits, summer term

Instructor: Melanie Gillingham, PhD, RD, LD

This course provides a conceptual framework and hands on lab experience to explore the basic nutritional assessment techniques used in dietetics/nutrition practice. Assessment techniques for measuring diet, blood glucose, insulin, plasma lipids, mineral and vitamin status are reviewed and practiced in the laboratory setting. Students evaluate the effect of changes in diet on blood parameters such as glucose, insulin and lipids. Additional
techniques to assess body composition and energy expenditure are included in the laboratory procedures. At the end of this course, students have a working knowledge of the basic nutrition assessment principles and laboratory procedures used to assess nutrition status of patients or research subjects.

**NUTN 521 – ENERGY METABOLISM**

3 credits, summer term

Instructor: Melanie Gillingham, PhD, RD, LD

This course reviews biochemical processes and nutrients involved in energy production. The digestion, absorption, transport, storage and metabolism of carbohydrates and lipids are covered in depth. Micronutrients essential to these systems including many B vitamins, and minerals are covered as they relate to energy production. At the end of the quarter, perturbations in energy balance during various states of health and disease are discussed. These topics include energy balance during exercise, in obesity or during critical illness.

**NUTN 522 – ANTIOXIDANT, BONE, AND PROTEIN METABOLISM**

3 credits, fall term

Instructor: Joyanna Hansen, PhD, RD, LD

NUTN 522 is organized into three main sections, which include protein structure, function and metabolism, nutrient effects on bone and antioxidant roles of various nutrients. Specific nutrients of study include protein, the fat soluble vitamins, vitamin B6 and biotin, as well as key macro- and micro-minerals, including calcium, magnesium, zinc, selenium, copper, boron, manganese and molybdenum.

**NUTN 527/627 – NUTRITIONAL EPIDEMIOLOGY**

3 credits, spring term of odd years

Instructor: Joyanna Hansen, PhD, RD, LD

Nutritional Epidemiology is designed to introduce basic concepts and methods in epidemiology and nutritional epidemiology. This course focuses on considerations related to the design, analysis, and interpretation of population-based nutrition studies. Topics will include methods for assessing dietary intake, adjustment for energy intake, use of biomarkers in nutrition-related studies, methodological challenges in nutritional epidemiology research, and the application of nutritional epidemiology research to health policy.
NUTN 530 – MATERNAL, INFANT, AND CHILD NUTRITION

3 credits, winter term

Instructor: Sandy van Calcar, PhD, RD, LD

Maternal, Infant and Child Nutrition will cover nutritional needs and concerns for pregnant women, the developing fetus, infants and children through adolescence. The course will include several guest lectures from clinicians and researchers in this field. Topics will include: pregnancy physiology, nutrition needs during pregnancy, fetal growth and metabolism and nutrition-related pregnancy complications; nutrition for the first year including lactation, breast milk vs. infant formula composition, formula selection, growth assessment, infant feeding recommendations and maternal/Infant feeding relationship; growth and nutrition needs for toddlers and preschool including nutrition-related problems during these years; growth and nutrition needs for older children and adolescents including bone health, fad diets, sports nutrition and eating disorders; and medical nutrition therapy for pediatrics including inborn errors of metabolism, seizure control, renal disease, eating disorders, diabetes, cystic fibrosis, other nutrition related disorders.

NUTN 531 – SPORTS NUTRITION

2 credits, fall term

Instructor: Melanie Gillingham, PhD, RD, LD

This course will explore the metabolism of nutrients and nutritional needs for optimal human performance; specific recommendations for training and competition, and dietary guidelines for active individuals. Discussions will include current research findings concerning energy metabolism, fluid and electrolyte balance, vitamin-mineral supplementation, use of ergogenic aids, and exercise in extreme environments.

NUTN 532 – NUTRITION FOR THE OLDER ADULT

2 credits, winter term

Instructor: Sandra van Calcar, PhD, RD, LD

This course will cover physiology of the aging process, with emphasis on how physical and mental changes impact nutrition needs of the elderly population, food insecurity in the elderly, available nutrition programs and resources, and the role of physical activity in the aging process. Students will learn how to assess nutrition status of the elderly, develop medical nutrition therapy plans, prevent and treat osteoporosis and other skeletal health concerns, and provide end of life care, with an emphasis on withdrawing nutrition support. Research studies on nutrition and aging, including calorie restriction and microbiomes will be presented.
Nutritional Genomics is an exciting and fast-moving field that studies how nutrients and genes interact to affect nutrition status and disease risk, with the ultimate goal of advancing personalized nutrition care. This 2 credit hour course will provide a foundational understanding of nutritional genomics, focusing on nutrigenetics (the effect of genetic variation on nutrient uptake and metabolism) and nutritional genomics (the effect of diet on gene expression). Epigenetics, emerging ‘omics’ technologies, legal/ethical implications of genetic testing, and the integration of nutritional genomics into clinical practice and public health policy will also be discussed.