



INDIANA UNIVERSITY

University Graduate School  
2009-2010  
Academic Bulletin

## Nutrition and Dietetics

### School of Health and Rehabilitation Sciences Indianapolis

#### Chairperson

Clinical Professor Jacquelynn O’Palka

#### Departmental E-mail

[jopalka@iupui.edu](mailto:jopalka@iupui.edu)

#### Departmental URL

[http://shrs.iupui.edu/nutrition\\_dietetics/](http://shrs.iupui.edu/nutrition_dietetics/)

### Graduate Faculty

(An asterisk [\*] denotes membership in the University Graduate School faculty with the endorsement to direct doctoral dissertations.)

#### Professors

M. Sue Brady (Emerita), Jacquelynn O’Palka, Karyl Rickard\*, Arlene Wilson\* (Emerita)

#### Associate Professors

Sara Blackburn, Judith Ernst

#### Assistant Professor

Ada Van Ness (Emeritus)

#### Adjunct Professors

James Lemons (Pediatrics), Donald Orr\* (Pediatrics)

#### Graduate Advisor

Jacquelynn O’Palka, 224 Coleman Hall, 1140 W. Michigan Street, Indianapolis, IN 46202-5180, (317) 278-0933, [jopalka@iupui.edu](mailto:jopalka@iupui.edu).

## Master of Science in Nutrition and Dietetics

The program is located at the IUPUI campus in Indianapolis and utilizes facilities throughout central Indiana. The purpose of the program is to provide an opportunity for health care professionals to deepen their knowledge base and practice skills, particularly in the area of clinical nutrition. The curriculum is designed for the student who has a special interest in the nutritional requirements and provision of nutrition therapy in acute and chronic conditions, or the care of special popula-

Graduate Office  
Union Building 207  
Indiana University–Purdue University Indianapolis  
Indianapolis, IN 46202  
(317) 274-1577  
Contact: [gradoff@iupui.edu](mailto:gradoff@iupui.edu)

tions, such as pre-term infants. Program affiliations throughout central Indiana provide the opportunity for the student to work with patient populations in both outpatient and inpatient settings, as well as with the general public. Students may specialize in either adult or pediatric nutrition. This curriculum will not prepare the student to sit for the Registration Examination for Dietitians.

#### Degree Requirements

To earn the M.S. degree, a minimum of credit hours at the graduate level are required. Candidates for this degree may petition to apply up to 8 credit hours of graduate work from other institutions or programs to this degree.

#### Admission Requirements

Applicants should have a bachelor’s degree from an accredited college or university, a minimum grade point average of B (3.0 on a 4.0 scale) overall, an appropriate level of achievement on the Graduate Record Examination, a current health care practice credential or proof of completion of an undergraduate major in nutrition and dietetics, and three letters of recommendation addressed to the Nutrition and Dietetics Program. The applicant must submit a completed application form to the Office of Research and Graduate Studies, along with two copies of transcripts from all universities attended. Indiana University graduates should request that the Registrar’s Office send unofficial copies of their transcript. Non-Indiana University graduates must submit at least one official transcript from each university attended. A current health care practice credential or proof of completion of an undergraduate major in nutrition and dietetics is required. A nonrefundable application fee is required. Applications and further information may be obtained by writing to the following address:

Department of Nutrition and Dietetics  
School of Health and Rehabilitation Sciences  
Indiana University–Purdue University Indianapolis  
1140 W. Michigan Street  
Indianapolis, IN 46202-5119

## Grade Requirement

A minimum of a 3.0 (B) grade point average in graduate work is required for continuance in graduate study. When the grade point average of a student falls below 3.0 or the student is not making sufficient progress toward the degree, the Graduate Studies Committee will review the student's record and recommend to the dean that the student be placed on probation. Unless the student achieves a 3.0 grade point average or begins making satisfactory progress, in the next semester of enrollment, the student will not ordinarily be allowed to continue in the graduate program. For more information about academic regulations, contact the program director.

## Thesis

Students may elect to complete a thesis or to take additional course work and complete a problem. Contact the graduate advisor for details.

## Curriculum

### Degree Requirements for the Thesis and Non-Thesis Options in the M.S. in Nutrition and Dietetics

Requirements	Non-Thesis Option Credit Hours	Thesis Option Credit Hours
<b>Core Courses</b>	<b>18-19</b>	<b>21-22</b>
BIOC B500 Biochemistry &	3	3
PHSL F503 Human Physiology	4	4
<b>OR</b>		
BIOL 556 Physiology I &	3	3
BIOL 557 Physiology II	3	3
NURS N505 Measurement and Data Analysis <b>OR</b>	3	3
GRAD G651 Introduction to Biostatistics I		
SHRS N563 Research Methods in Nutrition and Dietetics <b>OR</b>	3	3
SHRS W520 Evidence Based Critical Inquiry in the Health Sciences** <b>OR</b>		
GRAD G610 Topics in Translational and Implementation Research		
SHRS N598 Research in Nutrition	3	6
SHRS N550 Human Nutritional Pathophysiology I	3	3
<b>Additional Credits chosen from the following:*</b>	<b>17-18</b>	<b>14-15</b>
SHRS N552 Human Nutritional Pathophysiology II 3 cr		
SHRS N570 Pediatric Nutrition I #3 cr		
SHRS N572 Advanced Pediatric Nutrition# 3 cr		
SHRS N576 Leadership in Pediatric Nutrition# 3 cr		
Other Graduate Level Courses		
<b>Total</b>	<b>36</b>	<b>36</b>

\* There are two tracks in the M.S. in Nutrition and Dietetics. Students interested in pediatric nutrition enroll in N550, N570, N572, and N576. Students interested in adult nutrition enroll in N550, N552, and additional courses that meet the particular interests of the student and are approved by the graduate advisor. #E-Learning Graduate Certificate Leadership in Pediatric Nutrition Program;

\*\* Certificate Program in Health Sciences Patient Centered Outcomes

## e-Learning Graduate Certificate Program Leadership in Clinical Pediatric Nutrition

This e-learning certificate requires completion of 12 credits (four courses) and is designed to provide registered dietitians with specialized pediatric nutrition knowledge, clinical and leadership skills in pediatric health care. The e-learning certificate course work applies to the Master of Science in Nutrition and Dietetics degree.

### Course Requirements

SHRS N570 Pediatric Nutrition	3 credits
SHRS N572 Advanced Pediatric Nutrition	3 credits
SHRS N576 Leadership Development in Pediatric Nutrition	3 credits
One of the following:	
SHRS N574 Nutrition Management of High Risk Neonates and Infants	3 credits
SHRS N596 Clinical Dietetics	3 credits

### Degree Requirements

Students must complete all required course work (the four designated courses) with a grade of B or better. No credits will be accepted from other institutions to fulfill the requirements of the certificate. No undergraduate courses can be used to fulfill the requirements of the certificate.

### Admission Requirements and Procedures:

Students admitted into the certificate program must meet all requirements of both the Graduate School and the School of Health and Rehabilitation Sciences. The minimum admissions requirements are: bachelor's degree from an accredited institution, evidence of dietetic registration, and a total undergraduate GPA of at least 3.00 on a 4.00 scale. To be admitted into the certificate program, students must submit the following:

1. Evidence of dietetic registration.
2. Official undergraduate transcripts.
3. 300-500 word personal statement of academic and professional goals.
4. Three letters of recommendation from those familiar with the applicant's academic and professional performance.
5. Application for e-learning certificate program 'Leadership in Clinical Pediatric Nutrition.'

### E-learning Certificate Advisor

Karyl Rickard, 224 Coleman Hall, 1140 West Michigan St.  
Indianapolis, IN 46202-5180, (317) 278-0933,  
krickard@iupui.edu

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## Courses

“P” refers to a course prerequisite and “C” to a course that must be taken concurrently.

**N500 Nutrition I (3 cr.)** P: Graduate standing. Undergraduate courses in biological sciences or consent of instructor. This course applies the principles of physiology, chemistry, and biology to describe the role of nutrition and exercise in the human body, explores the interrelated and protective role of nutrition and exercise in wellness, health promotion, and disease prevention. This course is taught online.

**N544 Diet Therapy (3 cr.)** P: Dietetic internship. Study of physiological and biochemical alterations that occur during disease states and their effect on nutritional requirements and methods of providing nutrients.

**N546 Medical Lectures (cr. arr.)** Lectures by professional staff and invited guests in the health care field.

**N550 Human Nutritional Pathophysiology I (3 cr.)** P: N500, F503 or BIOL 557, or consent of instructor. An integrated study of the biochemical and physiological aspects of human carbohydrate and lipid metabolism with special reference to fundamental nutrition issues, including determination of nutrient quality, nutrient interrelationships, micronutrients, and energy balance in humans and in common clinical problems.

**N552 Human Nutritional Pathophysiology II (3 cr.)** P: N550 or consent of instructor. A continuation of N550. An integrated study of the biochemical and physiological aspects of human protein and micronutrient metabolism, including determination of nutrient quality, nutrient interrelationships, and energy partitioning in humans and in common clinical problems.

**N560 Review of Nutrition Standards (3 cr.)** Review of various nutrition standards including those of the United States, the United Kingdom, Canada, and the World Health Organization. Course includes a review of all cited literature for one of the nutrients listed in the Recommended Dietary Allowances.

**N563 Research Methods in Nutrition and Dietetics (3 cr.)** P: Graduate level statistics course or consent of instructor. Study of research methodology utilized in nutrition and dietetics. Course includes critique of literature and preparation of a grant proposal.

**N567 Management Issues in Dietetics (1 cr.)** P: Dietetic intern. Advanced study in institutional and hospital dietetic management including personnel, financial, operational, and regulatory issues.

**N570 Pediatric Nutrition I (3 cr.)** P: B500, BIOL 557, undergraduate metabolic nutrition course, or consent of instructor. An application of principles of physiology, biochemistry, and nutrition to the specialized nutrient needs and nutritional care of healthy infants, children, and adolescents and those with

the most common pediatric conditions/illnesses or disorders of broad nutritional significance.

**N572 Advanced Pediatric Nutrition (3 cr.)** P: N550, N570, or consent of instructor. An application of principles of physiology, biochemistry, and nutrition to the specialized nutrient needs and nutritional care of infants, both pre-term and term, and patients with complex pediatric conditions/illnesses that have a significant nutritional component.

**N574 Nutrition Management of High Risk Neonates and Infants (3 cr.)** P: N572. An application of physiology, biochemistry, and nutrition to the specialized nutrient needs and nutritional care of neonates, both preterm and term, who require intensive care. Discussion will include nutritional management issues related to the infant(s) during hospitalization, at discharge, and after discharge.

**N576 Leadership Development in Pediatric Nutrition (3 cr.)** This is an entry-level leadership development series of experiential learning activities, including a leadership development project for post-baccalaureate health care professionals and fellows.

**N590 Dietetic Internship (4-10 cr.)** P: Dietetic internship. Supervised clinical experience in clinical and community nutrition and food service systems management. Course meets the requirements of the American Dietetic Association for the postbaccalaureate experience needed for dietetic registration. Previous admission into dietetic internship required. May be taken for a maximum of 23 credit hours. Not applicable to a graduate degree program.

**N591 Seminar in Nutrition and Dietetics (1 cr.)** Exploration of various topics and issues in nutrition. May be repeated for a maximum of 4 credits.

**N593 Topics in Nutrition (1-3 cr.)** P: Consent of instructor. Exploration of a selected topic in nutrition at an advanced level. May be repeated once for credit if topics differ.

**N595 Readings in Nutrition (1-3 cr.)** P: Consent of instructor. Individualized readings on topics not covered in regular course offerings.

**N596 Clinical Dietetics (cr. arr.)** Clinical study in specialized areas of dietetics. May be taken more than once with the consent of the department for a maximum of 15 credit hours.

**N598 Research in Dietetics (cr. arr.)** Original research as approved by the department.