

Fiscal Unit/Academic Org	Dept of Human Nutrition - D1254
Administering College/Academic Group	Education & Human Ecology
Co-administering College/Academic Group	
Semester Conversion Designation	Re-envisioned with significant changes to program goals and/or curricular requirements (e.g., degree/major name changes, changes in program goals, changes in core requirements, structural changes to tracks/options/courses)
Current Program/Plan Name	Human Nutrition
Proposed Program/Plan Name	Human Nutrition
Program/Plan Code Abbreviation	HUMNNTR-MS
Current Degree Title	Master of Science

Credit Hour Explanation

Program credit hour requirements		A) Number of credit hours in current program (Quarter credit hours)	B) Calculated result for 2/3rds of current (Semester credit hours)	C) Number of credit hours required for proposed program (Semester credit hours)	D) Change in credit hours
Total minimum credit hours required for completion of program		45	30.0	32	2.0
Required credit hours offered by the unit	Minimum	30	20.0	19	1.0
	Maximum	39	26.0	29	3.0
Required credit hours offered outside of the unit	Minimum	3	2.0	3	1.0
	Maximum	14	9.3	13	3.7
Required prerequisite credit hours not included above	Minimum	0	0.0	0	0.0
	Maximum	5	3.3	3	0.3

Program Learning Goals

Note: these are required for all undergraduate degree programs and majors now, and will be required for all graduate and professional degree programs in 2012. Nonetheless, all programs are encouraged to complete these now.

- Program Learning Goals**
- 1. Critical thinking. Students will use critical thinking, evidence-based principles, and current information to analyze situations, issues and problems.
 - 2. Ethics. Students will engage in the ethical conduct of research.
 - 3. Communication. Students will communicate effectively both orally and in writing.
 - 4. Research. Students will apply the scientific method, including comprehension of the literature, study design, and research methods, to specific research questions.
 - 5. Health and Well-being. Students will demonstrate skills in assessing the nutritional status of humans and in planning surveillance or intervention programs for optimal health.
 - 6. Nutrition-related Sciences. Students will demonstrate comprehension of physical, biological, social and behavioral sciences and apply these scientific principles to the study of nutrition.
 - 7. Nutritional Sciences. Students will demonstrate in-depth knowledge of digestion, absorption, metabolism and functions of nutrients, and other bioactive dietary compounds at the whole body, cellular and molecular levels.
 - 8. Nutrition and Disease. Students will demonstrate comprehension of the relationship between nutrition and the occurrence and management of disease.

Assessment

Assessment plan includes student learning goals, how those goals are evaluated, and how the information collected is used to improve student learning. An assessment plan is required for undergraduate majors and degrees. Graduate and professional degree programs are encouraged to complete this now, but will not be required to do so until 2012.

Is this a degree program (undergraduate, graduate, or professional) or major proposal? Yes

Does the degree program or major have an assessment plan on file with the university Office of Academic Affairs? No

DIRECT MEASURES (means of assessment that measure performance directly, are authentic and minimize mitigating or intervening factors)

Classroom assignments

- Other classroom assessment methods (e.g., writing assignments, oral presentations, oral exams)

Evaluation of a body of work produced by the student

- Practicum, internship or research evaluation of student work
- Senior thesis or major project

Direct assessment methods specifically applicable to graduate programs

- Research proposals written and grants awarded
- Thesis/dissertation oral defense and/or other oral presentation
- Thesis/dissertation (written document)
- Publications

INDIRECT MEASURES (means of assessment that are related to direct measures but are steps removed from those measures)

Surveys and Interviews

- Student evaluation of instruction

Additional types of indirect evidence

- Job or post-baccalaureate education placement
- Comparison or benchmarking

USE OF DATA (how the program uses or will use the evaluation data to make evidence-based improvements to the program periodically)

- Meet with students directly to discuss their performance
- Analyze and discuss trends with the unit's faculty
- Make improvements in curricular requirements (e.g., add, subtract courses)
- Make improvements in course content
- Make improvements in course delivery and learning activities within courses
- Periodically confirm that current curriculum and courses are facilitating student attainment of program goals
- Benchmark against best programs in the field

Program Specializations/Sub-Plans

If you do not specify a program specialization/sub-plan it will be assumed you are submitting this program for all program specializations/sub-plans.

Pre-Major

Does this Program have a Pre-Major? No

Attachments

- Q2S.Master.Sci.Ltr.pdf: Chair Letter
(Letter from Program-offering Unit. Owner: Kinder,James Edward)
- Human Nutrition Dean Semester Cover Letter.pdf: College Cover Letter
(Letter from the College to OAA. Owner: Zircher,Andrew Paul)
- Revised MS proposal 101811.pdf: Revised Proposal
(Program Proposal. Owner: Zircher,Andrew Paul)

Comments

- Program Request and Program Proposal have been revised to include only one program in Nutritional Sciences with no sub-specializations. *(by Smith,Anne Marie on 09/22/2011 03:55 PM)*
- Hi Melissa,

Due to a concurrence concern, the Department of Human Nutrition will be removing one of the subplans from its master of science program. To do this, we need the proposal returned to us in the curriculum.osu.edu system. *(by Soave,Melissa A on 09/21/2011 04:34 PM)*

Workflow Information

Status	User(s)	Date/Time	Step
Submitted	Smith,Anne Marie	11/23/2010 02:09 PM	Submitted for Approval
Approved	Kinder,James Edward	11/24/2010 12:30 PM	Unit Approval
Approved	Zircher,Andrew Paul	01/22/2011 11:40 AM	College Approval
Approved	Myers,Dena Elizabeth	01/24/2011 10:12 AM	GradSchool Approval
Revision Requested	Soave,Melissa A	09/21/2011 04:35 PM	CAA Approval
Submitted	Smith,Anne Marie	09/22/2011 03:55 PM	Submitted for Approval
Approved	Kinder,James Edward	09/22/2011 04:36 PM	Unit Approval
Revision Requested	Zircher,Andrew Paul	10/07/2011 03:41 PM	College Approval
Submitted	Zircher,Andrew Paul	10/19/2011 08:50 AM	Submitted for Approval
Approved	Zircher,Andrew Paul	10/19/2011 08:52 AM	Unit Approval
Approved	Zircher,Andrew Paul	10/19/2011 08:52 AM	College Approval
Pending Approval	Slotnick,Elliot E Myers,Dena Elizabeth	10/19/2011 08:52 AM	GradSchool Approval



Department of Human Nutrition

College of Education and Human Ecology
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24 November 2010

Office of Academic Affairs
203 Bricker Hall
190 North Oval Mall
Columbus, OH 43210-1358

Office of Academic Affairs:

On behalf of the Department of Human Nutrition, I am pleased to recommend for approval the Program Plan for our graduate program leading to the Master of Science in Nutrition Degree. This submission is a result of the Quarter to Semester conversion process. The Department of Human Nutrition currently offers science-based programs which lead to a Master of Science in Nutrition.

The Department semester conversion process was led by Associate Professor Anne Smith, our Department semester conversion point person. She attended the UCAT Winter Curriculum Design Institute, Q2S Town Meetings, and was a member of the College of Education and Human Ecology Semester Conversion Committee. An Ad hoc Committee on Semester Conversion of six faculty members (Professor Martha Belury, Associate Professor Josh Bomser, Associate Professor Carla Miller, Assistant Professor Hugo Melgar-Quinonez, Visiting Professor Bob Reynolds and Associate Professor Anne Smith) was appointed in February 2010 and worked closely with the Department Master of Science Studies Committee which is under the leadership of Dr. Lydia Medeiros in the Quarter to Semester conversion process.

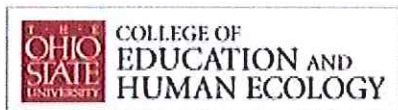
The Ad hoc Committee began with the development of a timeline which would culminate in the submission of the program proposal to the College of Education and Human Ecology in September 2010. The Ad hoc Committee began by formulating Program Learning Goals and desired outcomes. These goals were discussed and approved by the full faculty on February 23, 2010. The Departmental Master of Science Program Committee had dialogue throughout the spring and summer quarters of the 2009-10 and into the Autumn Quarter of the 2010-11 Academic Years. Semester course design was assigned to current instructors at all levels. The program was presented at an early November 2010 Department of Human Nutrition faculty meeting and approved by a majority of the Human Nutrition faculty members.

Thank you for your consideration of this program plan. Should you have any questions or need additional information, please do not hesitate to contact me.

Sincerely,

A handwritten signature in cursive script that reads "James E. Kinder".

James E. Kinder
Professor and Interim Chair



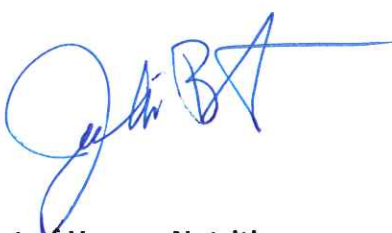
Office of Academic Affairs
172 Arps Hall, 1945 N. High Street
614 688-4571

Date: October 11, 2011

To: Randy Smith, Vice Provost for Academic Programs
Elliot Slotnick, Associate Dean, Graduate School

From: Jackie Blount, Associate Dean, EHE Academic Affairs

RE: Updated Semester Conversion Package for Department of Human Nutrition



I am pleased to present the package of semester conversion materials for the Department of Human Nutrition. In what follows, I will outline unique college and department contexts that have shaped this package. I will include tables summarizing constituent programs/courses and describe any other pertinent considerations. Finally, you will find Dean's level approval.

College Contexts

The College of Education and Human Ecology was formed in 2006 by merging two colleges (Human Ecology and Education). Curriculum across the new college, however, has remained relatively unchanged. Given this situation, we view the semester conversion process as a fresh opportunity to deepen the merger by building curricular collaborations among our units. We also wish to rethink our pre-existing programs and find ways to make them stronger, more coherent, and streamlined.

To these ends, we have asked faculty in our units to purge their curricula of little-used or less-than-relevant courses. We have challenged faculty to reach across unit lines to forge curricular collaborations by creating new degrees, interdisciplinary specializations, or co-taught courses. We are re-instituting a number of undergraduate teacher preparation programs (B.S.Ed.), each of which draws from courses in units around our college as well as across the university. We have encouraged five of our six units to address findings of the 2008 OSU Doctoral Program Assessment and Plan by strengthening their Ph.D. programs and making them more coherent. They have responded by: 1) defining their Ph.D. programs in alignment with their units -- rather than with their pre-merger college (i.e., Ph.D. in Consumer Science rather than Ph.D. in Human Ecology); and 2) creating true cores for their Ph.D. programs if they did not previously exist. Additionally, an Ed.D. degree in Educational Leadership is being proposed to address the need of school administrators to pursue advanced degrees geared for practitioners. With approval of the Ed.D. and also with recent B.O.R. approval of our other practitioner-oriented programs, an Ed.S. (Education Specialist) program in School Psychology and another in Teaching and Learning, fewer graduate students in the college will pursue Ph.D.s by default than in the past.

We believe that, taken together, these changes will greatly strengthen our programs and clarify our new college identity.

Departmental Notes

The Department of Human Nutrition (HN) is the only unit in the college that will not seek changes in the name or structure of its Ph.D. degree program. The reason for this is that the interdisciplinary Ph.D. in OSUN program was recognized in the 2008 OSU Doctoral Program Assessment and Plan as one of the top doctoral programs on campus. Because the doctoral OSUN program reaches across college bounds, a full semester conversion proposal will be submitted for university-level review later.

HN faculty are proposing to convert their MS program.

At the undergraduate level, in quarters the department utilized two degrees, the Bachelor of Science (BSN) in Nutrition, with a major in Nutrition, and a Bachelor of Science in Human Ecology (BSHE) with a major in Human Nutrition, and specializations in Dietetics, Nutrition in Industry, and Nutrition and Community Health. For semesters, the Department has proposed to move the specializations that were under BSHE to the BSN. In addition, the Nutrition and Community Health specialization will be converted for current students, but will be deactivated after they have graduated. Concurrence was sought and obtained from Food, Agricultural, and Environmental Sciences for the changes to the BSN.

Finally, in response to the college's curriculum collaboration initiative, faculty in HN have teamed up with faculty in PAES to propose a new bachelor's degree: B.S. in Health Promotion, Nutrition and Exercise Sciences. Such programs have emerged recently at peer institutions and quickly have grown in size as well as stature. Collaboration on this degree will be enhanced as the college is in the process of realigning, resulting in Human Nutrition and Exercise Science faculty joining together as part of a larger unit.

Summary Tables

Program	Extent of Change	Notes	Approval by EHE Curr. Committee	Approval by EHE College Council
Ph.D. OSUN	Converted	Note: This multi-college degree program will be submitted separately.	May 18, '11	June 3, '11
M.S. Nutrition	Converted	Existing Masters level program converted	Oct 3, '11- reapproved after concurrence issue with Allied Med resolved	Oct 7, '11
B.S. Nutrition	Re- envisioned	Three specializations will exist under the BSN degree. The Nutrition Science specialization has been part of the BSN degree. The Nutrition in	Oct. 3 '11- reapproved after concurrence	Oct3 7, '11

		Industry and Dietetics specializations previously were under the BS Human Ecology degree. All specializations are converted, but the latter two have been brought under the BSN because "Human Ecology" does not exist as a college any longer, and for greater clarity. Nutrition and Community Health has been converted for current students, but with a future deactivation date.	issue with FAES resolved	
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Program	Extent of Change	Notes	Approval by EHE Curr. Committee	Approval by EHE College Council
B.S. Health Promotion, Nutrition and Exercise Sciences	New	Generated from EHE Curriculum Collaboration Seed Grant, '10. Includes curriculum from both HN and PAES, resulting in unique new synergies.	Nov. 30, '10	Dec. 3, '10
Minor in Human Nutrition	Converted	Straight conversion.	Nov. 30, '10	Dec. 3, '10

Courses	Number	Extent of Change	Approval by EHE Curr. Committee	Approval by EHE College Council
New graduate courses	1	New	Dec. 9, '10	Jan. 7, '11
New undergraduate courses	2	New	Dec. 9, '10	Jan. 7, '11
Total new Courses	3			
Re-envisioned graduate courses	4	Re-envisioned	Dec. 9, '10	Jan. 7, '11
Re-envisioned undergraduate courses	5	Re-envisioned	Dec. 9, '10	Jan. 7, '11
Total re-envisioned courses	9			
Graduate courses	17	Converted	Dec. 9, '10	Jan. 7, '11
Undergraduate courses	16	Converted	Dec. 9, '10	Jan. 7, '11
Total converted courses	33			
Total number of all courses	45			

College Approval

I have carefully reviewed all semester conversion materials for the Department of Human Nutrition, having done so conjointly with the EHE Curriculum Committee. I also have discussed these materials with Dean Achterberg. This memo signifies Dean's level approval of the entire semester conversion package for the Department of Human Nutrition.

Type of Program: Graduate Master's Degree

Degree Title: Master's of Science

Program/Plan Name: Human Nutrition

Program Rationale. The MS program in Human Nutrition is aimed at science-minded students who aspire to learn about advanced basic sciences, laboratory techniques, and learn intermediate-level research skills. The purpose of the degree is to prepare students for intermediate careers in nutritional, genomic or pharmaceutical industries, or as preparation for admission to medical or doctoral programs for careers in higher education or an advanced health care profession. The program is a replacement of the MS in Human Ecology, Specialization in Human Nutrition degree.

List of Semester Courses (department, title, credit hours) and categories of courses that constitute the requirements of the program:

<u>Required Core Courses</u>	<u>Credit Hours</u>
HUMN NTR 7761 Macronutrients and Metabolism	4
HUMN NTR 7762 Vitamin and Mineral Metabolism	4
HUMN NTR 7765 Nutritional Assessment of Individuals and Populations	2
HUMN NTR 7789 Nutrition Research Design	1
HUMN NTR 7898 Research Seminar	1
HUMN NTR 7899 Oral Research Communication	1
HUMN NTR 7999 Research: Thesis	6
<u>Supportive Electives (3 credits required)</u>	
STAT 5301 Data analysis I OR	3
PUB HEALTH 6210 Design and Analysis of Studies in Health Science OR	3
MOL GEN 5650 Analysis and Interpretation of Biological Data	3
<u>Suggested Electives (10 credits required)</u>	
HUMN NTR 5705 Nutrition and Exercise	2
HUMN NTR 5611 Medical Nutrition Therapy 1	3
HUMN NTR 5612 Medical Nutrition therapy 2	3
HUMN NTR 8801 Macronutrients-Lipids and Energy Balance	3
HUMN NTR 8802 Advanced Micronutrient Metabolism	3
HUMN NTR 8804 Advanced Community and International Nutrition	3
HUMN NTR 8806 Advanced Nutrition Education	3
HUMN NTR 8832 Women's Health	3
HUMN NTR 8833 Diet and Cancer	3
EDUPAES 7741 Multicultural Issues in Counseling	4
ANTHROP 5600 Medical Anthropology: Biosocial Aspects of Health	3
EDUPAES 7726 Changing Physical Activity Behavior	3
PUB HLTH xxxx Epidemiology of Obesity	
PUB HLTH xxxx Program Planning and Implementation	
PUB HLTH Preventing Disease & Promoting Health Through Behav Sci	
MED DIET Complementary Nutrition therapy: Supplements and Herbs	
VETBIOS 7730 Endocrinology	4
VETBIOS 6640 Fundamentals of oncology	4
NURSING 7450 Pathophysiology of Altered Disease States	5
MOLGEN 5701 DNA Transactions and Gene Regulation	4
MOLGEN 5705 Advances in Cell Biology	2

Master of Science in Human Nutrition Department of Human Nutrition College of Education and Human Ecology					
ADVISING SHEET					
Year 1	Autumn		Year 1	Spring	
Course	Name	Credit	Course	Name	Credit
HUMN NTR 7761	Macronutrient s and Metabolism	4	HUMN NTR 7762	Vitamin and Mineral Metabolism	4
HUMN NTR 7765	Nutritional Assessment of Individuals and Populations	2	HUMN NTR 7899	Oral research Communication	1
HUMN NTR 7789	Nutrition Research Design	1	HUMN NTR 7999	Research: Thesis	1
HUMN NTR 8888	Research Seminar	1	Suggested Elective	See list below	2
	Total	8		Total	8
Year 2	Autumn		Year 2	Spring	
Suggested Elective	See list below	3	Suggested Electives	See list below	5
Supportive Elective	See list below	3	HUMN NTR 7999	Research: Thesis	3
HUMN NTR 7999	Research: Thesis	2			
	Total	8		Total	8
Supportive Electives (3 credits required)			Suggested Electives (10 credits required)		
			HUMN NTR 5705	Nutrition and Physical Performance	2
STAT 5301	Data Analysis I	3	HUMN NTR 5611	Medical Nutrition Therapy 1	3
			HUMN NTR 5612	Medical Nutrition Therapy 2	2
Public Health 6210	Design & Analysis of Compar Biomed Res	3	HUMN NTR 8801	Macronutrients-Lipids and Energy Balance	3
			HUMN NTR 8802	Advanced Micronutrient Metabolism	3
MOL GEN 5650	Analysis and Interpretation of Biological Data	3	HUMN NTR 8804	Advanced Community and International Nutrition	3
			HUMN NTR 8806	Advanced Nutrition Education	3
			HUMN NTR 8832	Nutrition in Women’s Health	3
			HUMN NTR 8833	Diet, Nutrition & Cancer	3
			EDUPAES	Multicultural Issues in	4

			7741	Counseling	
			ANTHROP 5600	Medical Anthropology: Biosocial Aspects of Health	3
			EDUPAES 7726	Changing Physical Activity Behavior	3
			PUBLIC HEALTH	Epidemiology of Obesity	
			PUBLIC HEALTH	Program Planning and Implementation	
			PUBLIC HEALTH	Preventing Disease and promoting Health Through Behavioral Science	
			MED DIET	Complementary Nutrition therapy: supplements and Herbs	
			VETBIOS 7730	Endocrinology	4
			VETBIOS/ PATHOLOGY 6640	Fundamentals of oncology	4
			NURSING 7450	Pathophysiology of altered disease states	5
			MOLGEN 5701	DNA transactions and gene regulation	4
			MOLGEN 5705	Advances in cell biology	2

**Department of Human Nutrition
The Ohio State University**

**Approved Program of Study
Master of Science in Human Nutrition**

Directions: Complete three (3) copies. Program is to be signed by the student, advisor and committee members and submitted to the Chair of Graduate Studies Committee for review. Approved forms will be filed in the student's departmental folder and returned to the advisor and student.

Name: _____ Date Admitted Graduate School: _____
Specialization: _____ Projected Date of Completion: _____

Course/Department # and Title: **Instructor:** **Grade/Sem/Yr:**

Prerequisites to Fulfill Entrance Requirements (if none, omit)

Required Core (13 cr. hr)

Supportive Electives (3 cr. Hr)

Suggested Elective Courses (min 10 cr. hr.)

Thesis/Project (Thesis option – 6 cr. Hr)

Total Graduate Level Course Credits

Program Approval

Committee Members (typed name)	Signatures	Date
_____ Advisor	_____	_____
_____ Committee Member	_____	_____
_____ Committee Member	_____	_____
_____ Chair, Graduate Studies Committee	_____	_____

Copies to: Students' s file
 Student
 Advisor

Quarter Curriculum

There are two options available for the Master of Science in Human Ecology, Specialization in Human Nutrition degree. The thesis option requires a minimum of 45 graduate credit hours including thesis research hours not exceeding 10 credits of the 45 credit hours. The non-thesis option requires a minimum of 50 graduate credit hours including 5 credits for the research project. The required core curriculum is identical for thesis and non-thesis options. Students selecting the non-thesis option must also pass a 4-hour comprehensive written exam. Both the thesis and non-thesis options require a 1-2 hour oral examination and a departmental presentation of the thesis or project research. A 3-member advisory committee (1 advisor and 2 other graduate faculty) will guide the MS graduate study program for individual students.

Required Core

Nutrient Metabolism Series (15 credit hours)
<ul style="list-style-type: none"> • HN 761 - Advanced Nutrition Utilization I (Winter quarter, 5 cr.) • HN 762 - Advanced Nutrition Utilization II (Autumn quarter, 5 cr.) • HN 763 - Vitamins and Mineral (Spring quarter, 5 cr.)
Research Techniques Series (9-11 credit hours)
<ul style="list-style-type: none"> • HN 889 - Nutrition Research: Principles and Techniques (Fall quarter, 3 cr.) • Research Methods (3 cr.) - Select one course for 3 credit hours (Discuss selection with Advisor and Advisory Committee) <ul style="list-style-type: none"> ○ Ag Ed 885 - Research Methods (3 cr.) ○ Ag Ed 886 - Research Design (3 cr.) ○ Ag Ed 888 - Instrumentation and Procedures for Data Collection (3 cr.) ○ Allied Medicine 680.02 - Research Design in Biomedical Sciences (Winter, 3 cr.) • Statistics (3-5 cr.) - Select one course for 3-5 credit hours (Discuss selection with Advisor and Advisory Committee) <ul style="list-style-type: none"> ○ An Sci 688 - Applied Biometrics (5 cr.) ○ Ag Ed 887 - Analysis and Interpretation of Data (3 cr.) ○ Mol Gen 650 - Analysis and Interpretation of Biological Data (5 cr.) ○ Public Health 701 - Design and Analysis of Comparative Biomedical Research I (4 cr.) ○ Statistics 528 - Data Analysis I (3 cr.)
Seminar (2 credit hours)
<ul style="list-style-type: none"> • HN 895 - Seminar (Fall, Winter, Summer; 1 cr. each quarter)
Total Required Core: 26-28 credit hours

Master of Science in Human Ecology, Specialization in Human Nutrition -Thesis Option Summary

Required Core (26-28 credit hours)
<ul style="list-style-type: none"> • See Above
Electives (7-9 credit hours)
<ul style="list-style-type: none"> • Select from: <ul style="list-style-type: none"> ○ Emphasis Track in Applied Nutrition ○ Emphasis Track in Nutrition Sciences
Thesis Research (10 credit hours)

- HN 998 - Thesis Research

Total for Ms/Hn - Thesis Option: 45 credit hours

Master of Science in Human Ecology, Specialization in Human Nutrition - Non-Thesis Option Summary

Required Core (26-28 credit hours)

- See Above

Electives (17-19 credit hours)

- Select from:
 - Emphasis Track in Applied Nutrition
 - Emphasis Track in Nutrition Sciences

Individual Studies (5 credit hours)

- HN 993 - Individual Studies

TOTAL FOR MS/HN - NON-THESIS OPTION: 50 credit hours

Emphasis Track in Applied Nutrition

Select from the following courses.

- HN 705 - Nutrition and Exercise (3 cr.)
- HN 804 - Advanced Community and International Nutrition (5 cr.)
- HN 806 - Advanced Nutrition Education (5 cr.)
- HN 890 - Nutrition Field Experience (up to 10 cr.)
- HN 830.11 - Nutrition-Endocrine Interactions in Women's Health (3 cr.)
- HN 830.10 - A Comprehensive Approach to Food Safety (3 cr.)
- Public Health 827 - Program Planning and Implementation (4 cr.)
- Public Health 702 - Design and Analysis of Studies in the Health Sciences (4 cr.)
- Statistics 529 - Data Analysis II (3 cr.)
- Statistics 530 - Data Analysis III (3 cr.)
- Biostatistics 615 - Design and Analysis of Clinical Trials (3 cr.)

Emphasis Track in Applied Nutrition

Select from the following courses.

- HN 830 - Advanced Topics Series (3-5 cr.)
- FST 833 - Research Methods in Food Science (4 cr.)
- FST 868 - Molecular Biology Techniques (5 cr.)
- Nursing 703 - Pathophysiology of Altered Health States I (4-5 cr.)
- Nursing 704 - Pathophysiology of Altered Health States II (4-5 cr.)
- Animal Science 617 - Physiology of Lactation (3 cr.)
- Public Health 702 - Design and Analysis of Studies in the Health Sciences (4 cr.)
- Statistics 529 - Data Analysis II (3 cr.)
- Biostatistics 615 - Design and Analysis of Clinical Trials (3 cr.)

**Department of Human Nutrition
The Ohio State University**

**Approved Program of Study
Master of Science in Human Ecology, Specialization in Human Nutrition**

Directions: Complete three (3) copies. Program is to be signed by the student, advisor and committee members and submitted to the Chair of Graduate Studies Committee for review. Approved forms will be filed in the student's departmental folder and returned to the advisor and student.

Name: _____ Date Admitted Graduate School: _____
Specialization: _____ Projected Date of Completion: _____

Course/Department # and Title: **Instructor:** **Grade/Qtr/Yr:**

Prerequisites to Fulfill Entrance Requirements (if none, omit)

Required Core (26-28 cr. hr)

Elective Courses (Thesis option – 7-9 cr. hr; Non-thesis option – 17-19 cr. hr.)

Thesis/Project (Thesis option – 10 cr. hr.; Non-thesis option – 5 cr. hr.)

Total Graduate Level Course Credits

Program Approval

Committee Members (typed name)	Signatures	Date
_____ Advisor	_____	_____
_____ Committee Member	_____	_____
_____ Committee Member	_____	_____
_____ Chair, Graduate Studies Committee	_____	_____

Copies to: Students's file
 Student
 Advisor

Rev. 10/13/04

Required Core Courses Credit Hours	Quarter Equivalents, Title if Different
HUMN NTR 7761 Macronutrients and Metabolism 4	HUMN NTR 761- Carbohydrate and Lipid Metabolism 5
HUMN NTR 7762 Vitamin and Mineral Metabolism 4	HUMN NTR 762- Principles of Nutrient Metabolism 5
HUMN NTR 7765 Nutritional Assessment of Individuals and Populations 2	HUMN NTR 889- Nutrition Research: Principles and Techniques 3
HUMN NTR 7789 Nutrition Research Design 1	HUMN NTR 889- Nutrition Research: Principles and Techniques 3
HUMN NTR 7898 Research Seminar 1	
HUMN NTR 7899 Oral Research Communication 1	HUMN NTR 895 Seminar 1
HUMN NTR 7999 Research: Thesis 6	HUMN NTR 998 1-18
Supportive Electives (3 credits required)	
STAT 5301 Data analysis I 3	STAT 528 3
PUB HEALTH 6210 Design and Analysis of Studies in Health Science 3	Public Health 701 4
MOL GEN 5650 Analysis and Interpretation of Biological Data 3	MOL GEN 650 5
Suggested Electives (10 credits required)	
HUMN NTR 5705 Nutrition and Exercise 2	HUMN NTR 705 3
HUMN NTR 5611 Medical Nutrition Therapy 1 3	HUMN NTR 611- Nutrition and Chronic Disease 5
HUMN NTR 5612 Medical Nutrition therapy 2 3	HUMN NTR 612- Medical Nutrition Therapy 3
HUMN NTR 8801 Macronutrients-Lipids and Energy Balance 3	HUMN NTR 830.01- Advanced Studies: Energy/Lipids 5
HUMN NTR 8802 Advanced Micronutrient Metabolism 3	HUMN NTR 830.02- Advanced Studies: Vitamins/Minerals 5
HUMN NTR 7804 Advanced Community and International Nutrition 3	HUMN NTR 804 5
HUMN NTR 8806 Advanced Nutrition Education 3	HUMN NTR 806 5
HUMN NTR 8832 Women's Health 3	HUMN NTR 830.11 Advanced Studies: Diet, Nutrition, and Cancer 4
HUMN NTR 8833 Diet and Cancer 3	HUMN NTR 830.12 Advanced Studies: Diet, Nutrition, and Cancer 4
EDUPAES 7741 Multicultural Issues in Counseling 4	EDU PAES 801.01 3
ANTHROP 5600 Medical Anthropology: Biosocial Aspects of Health 3	ANTHROP 601.01 5
EDUPAES 7726 Changing Physical Activity Behavior 3	EDU PAES 726 3
PUB HLTH 8411 Epidemiology of Obesity	PUB HLTH 819
PUB HLTH xxxx Program Planning and Implementation	
PUB HLTH Preventing Disease & Promoting Health Through Behav Sci	
MED DIET Complementary Nutrition therapy: Supplements and Herbs	
VETBIOS 7730 Endocrinology 4	VETBIOS 730 5

Fall 2012			Spring 2013		
Course	Name	Credit	Course	Name	Credit
HN 7789	Nutrition Research Design (equivalent of HN889)	1	<i>HN elective</i>		
<i>HN elective</i>					

Core classes are shown in normal text

All electives are shown in italics

NB. Research credit (HN993 and HN999) has not been shown on the above schedule. This varies with students in a manner that is dependent on their research area and project. Most students do work the majority of the work for their research thesis in their second year, when they take fewer classes.

We are a small program (currently there are 10 students, of which 9 will likely graduate this year). We therefore can easily work with students on an individual basis, if there are any problems. Our primary goal is to get our students to get most of our required classes this year (2011-2012). If we run into any problems with the above schedule, we will allow students to take an equivalent class that in 2012-2013.

For the HN required courses.

HN761 will become HN7761

HN762 will no longer be offered. This class primarily focuses on nutrient dependent changes metabolism. If our student has problems with this class, we will find a replacement class that focuses on general metabolism in biological sciences.

HN763 will become HN7762

The course HN889 will become HN7789.

For required electives that are not HN classes, we will search for other equivalent classes as we get the finalized course listing.