

DEPARTMENT OF NUTRITION

SCHOOL OF PUBLIC HEALTH
& HEALTH SCIENCES

NOTES TO GRADUATE STUDENTS



University of Massachusetts Amherst

June 2021

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1. INTRODUCTION

Welcome to the Department of Nutrition. We hope that your stay with us will be transformative – both intellectually and personally. You are a very important part of our Department. The past cooperative effort of staff and graduate students has contributed much to the recognition of this Department in the field. Through the years, we have become acquainted with many of the issues that graduate students could face when dealing with the University, the Graduate School, and/or the Department. These Guidelines have been prepared to clarify and acquaint you with certain procedures that are essential to your success as well as the smooth functioning of our Department as a whole.

No set of guidelines can be complete. The cooperation between you and the Department and you and your fellow graduate students depends more on the use of common sense and sound judgment than merely following any stipulations set forth here. Graduate students are considered mature adults of serious purpose and should govern themselves and their actions accordingly. This Department expects each graduate student to develop a dedicated interest in his/her professional future. Students appointed as Teaching Assistants, Research Assistants or Project Assistants are primarily considered graduate students rather than staff members.

It is important that graduate students become familiar with the general rules and requirements of the Graduate School as outlined in the Graduate School Bulletin, Graduate Student Handbook, and Guidelines for Master's Theses, Non-thesis and Doctoral Dissertations and in other Graduate School publications. These are available at www.umass.edu/gradschool and through SPIRE. It is the students' responsibility to comply with the various forms, questionnaires, and deadlines outlined in these publications.

Studies in the Department emphasize nutrition from cells to communities, including nutritional biochemistry and physiology, nutritional epidemiology, nutrition education, and community nutrition. Department research is organized into three research clusters: *Community Engaged Nutrition Research Group*; *Nutrients & Bioactives for Health*; and *Translational Research Initiative*. The program provides M.S. and M.P.H. degrees in Nutrition, and a Ph.D. degree in Public Health with a concentration in Nutrition.

The M.S. program offers both thesis and non-thesis tracks. The Master of Science program prepares graduates for careers in research, clinical nutrition, community nutrition, or nutrition education, or for doctoral studies in nutrition. Programs of study and research are planned on an individual basis by each student and his/her research committee to support the student's career goals as well as the research interest of the student and faculty. Students select from courses in the Department and from other graduate

programs in the University, such as: Animal Science, Biology, Biostatistics, Community Health Studies, Environmental Health Sciences, Epidemiology, Kinesiology, Food Science or Molecular and Cellular Biology.

The M.P.H. degree program prepares those with an advanced degree and experience for practice and career advancement in a public health nutrition setting. The M.P.H. in Nutrition offers a part-time, fully online program through University Without Walls (UWW).

The Ph.D. program prepares individuals for teaching and research in academic institutions and for positions of professional leadership in health and health-related agencies where research is an important function.

2. THE M.S. DEGREE

2.1 Degree Options

2.1.1. Thesis Option

The M.S. program offers both a thesis and non-thesis option. The thesis option is designed for students who are interested in pursuing research or an advanced degree. Candidates who elect the M.S. thesis option must meet the requirements for a thesis, including pursuit of original research. A copy of the thesis must be in the Departmental Main Office for review by the faculty 10 business days before the scheduled thesis defense. Students who have accepted a Departmental research assistantship must fulfill their obligations for research work and are expected to submit a thesis as a partial requirement for a Master's degree.

All courses offered for a graduate degree, including prerequisites, must be taken for a letter grade.

Acceptance of students into the M.S. program is based on having completed a B.S. or B.A. degree. A student entering the M.S. program may transfer up-to six (6) course credits toward the requirements for the M.S. degree. **The courses must be clearly graduate courses taken within 3 years from the time of admission and taken in excess of the credits required for the Bachelor's degree or any other degree earned by the student prior to enrollment in the M.S. program and with a grade of B or higher.**

All M.S. thesis candidates must satisfactorily pass a Departmental oral examination as part of the degree requirements as described in the University of Massachusetts Graduate School Handbook. The oral examination is the final thesis defense (presentation of research to the Department). A student may be allowed a second chance to pass any portion of the M.S. exit exam. Two failures are grounds for dismissal from the program.

2.1.2. Non-thesis Options

The non-thesis option is designed for students who are not interested in pursuing research. Instead, students take additional courses, including a graduate seminar in which they identify a topic, review the literature, and present a synthesis of their findings.

The non-thesis DPD option is designed for students who are not interested in pursuing research but wish to become a Registered Dietitian (RD). Such students will complete coursework as well as additional dietetics classes required by the Academy of Nutrition and Dietetics. All graduate DPD students will earn their Verification Statement through the undergraduate DPD program.

2.2. Course Requirements

2.2.1. Basic Science Core-prerequisites

At least 5 out of these 7 courses must be taken before matriculation, one of which must be Basic Nutrition or a closely related course. Two can be taken while enrolled in the M.S., but not for graduate credit. For the MS/DPD students, 6

of the basic core classes must be taken before matriculation, including general chemistry (2 semesters), organic chemistry, human anatomy & physiology, basic nutrition, and one other.

- Introductory Zoology or Biology (1 semester)
- Human Physiology (1 semester)
- General Chemistry (2 semesters/with labs)
- Organic Chemistry (1 semester)
- Biochemistry (1 semester)
- Microbiology (1 semester)
- Basic Nutrition (1 semester)

2.2.2. *Nutrition Core-pre-requisites*

These courses must be taken by those who do not have a B.S. degree in nutrition.

NUTRITN	352	Life Cycle Nutrition
NUTRITN	430	Nutrition and Metabolism

2.2.3. *Advanced Core (21 credits) - Graduate level*

These courses must be taken by all enrolled in the M.S. program.

SPHHS	600	Great Challenges in Public Health and Health Sciences II
NUTRITN	630	Biochemical and Molecular Nutrition: Macronutrients
NUTRITN	640	Public Health Nutrition
NUTRITN	714	Biochemical and Molecular Nutrition: Micronutrients
NUTRITN	741	Methods in Nutrition Research
NUTRITN	793/4A	Graduate Seminar (2 semesters, 1 credit/semester)
BIOSTATS	540	Introductory Biostatistics
EPI	630	Principles of Epidemiology

2.2.4. *Electives/Courses Outside of Major (3-6 credits):*

Thesis:

- One 3-credit Nutrition course (500-level or above)

Non-thesis:

- Two Nutrition courses (500-level or above)
- Two additional courses with at least one from outside the Department

2.2.5 *Culminating Experience:*

Thesis (7-10 credits):

NUTRITN	699	M.S. Thesis
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Non-Thesis (1 credit):

NUTRITN	696	Culminating Experience, etc.
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NOTE: Detailed course requirements for MS-thesis, MS-non-thesis, and MS-non-thesis/DPD are shown in the Appendices.

3. THE ACCELERATED (4+1) B.S./M.S. DEGREE

The purpose of this degree program is to enable undergraduate students to complete the requirements for a B.S. and M.S. degree in less calendar time than would be required through normal sequential enrollment. This intensive program is targeted toward high achieving undergraduate students who are seeking a quicker path to a graduate degree. Students interested in the accelerated M.S. program must apply to the Graduate School for admission and acceptance into the M.S. program. Students in the M.S. program must re-apply to the Graduate School for admission and acceptance to the Ph.D. program. Consult the Graduate School website for application procedures and deadlines. Admission into the accelerated master's program will be decided by the Nutrition Department Graduate Admissions Committee. Students graduating from this program will earn both a B.S. and an M.S. degree. Students interested in this program should contact both the Undergraduate and Graduate advisors.

NOTE: Students in the Accelerated M.S. program are allowed to transfer up to 12 credits of \geq 500-level courses. Of these 12 credits, up to 9 credits can be double-counted. Double-counted means that you can count these classes for both your B.S. and your M.S. degrees. More details and the Credit Transfer Form are on the Graduate School website (https://www.umass.edu/graduate/sites/default/files/files/transfer_of_credits_for_accelerated_0.pdf).

3.1. Timeline

Students can apply to the accelerated master's program in their senior junior year. In order to apply, students will need to have earned a GPA of at least 3.5 and have completed the following courses:

- NUTRITN 230
- NUTRITN 372 (formerly 391C)*
- NUTRITN 430*
- KIN 270 and 272
- BIO 151
- CHEM 111 and 112
- CHEM 261 or 250

*Students may take these classes in the spring semester they apply to the 4+1 program. All other undergraduate requirements, including BIOCHEM 420, NUTR 230, and NUTR 352 must be completed prior to starting the MS.

3.2. Course Requirements-Graduate Level

3.2.1. Advanced Core (21 credits)

These courses must be taken by all enrolled in the M.S. program.

SPHHS	600	Great Challenges in Public Health and Health Sciences II (1 credit)
NUTRITN	630	Biochemical and Molecular Nutrition: Macronutrients
NUTRITN	640	Public Health Nutrition
NUTRITN	714	Biochemical and Molecular Nutrition: Micronutrients
NUTRITN	741	Methods in Nutrition Research
NUTRITN	793/4A	Graduate Seminar (2 semesters, 1 credit/semester)
BIOSTATS	540	Introductory Biostatistics
EPI	630	Principles of Epidemiology

3.2.2. Electives/Courses Outside of Major (12 credits):

- Two Nutrition courses (500-level or above)
- Two additional courses with at least one from outside the Department

3.2.2 Culminating Experience (1 credit):

NUTRITN 696 Culminating Experience, etc.

NOTE: Detailed course requirements for ACCELERATED (4+1) B.S./M.S. are shown in the Appendices.

4. THE M.P.H. DEGREE

4.1 M.P.H. Online Program

The MPH online degree is designed to provide advanced training in public health and nutrition to nutritionists, public health practitioners, and those with advanced degrees, including Ph.D., M.D, R.D., R.N., C.H.E.S., and PharmD. In addition to coursework, a 3-credit practicum is required. This program prepares graduates for practice and career advancement in a public health nutrition setting. Admission requirements:

1. A Bachelor's Degree with a minimum 2.75 GPA.
2. At least two years of relevant public health-related work experience or status as a Registered Dietitian.
3. Two undergraduate level courses in Nutrition.
4. One undergraduate level course in Human Physiology.

4.1.1. Course Requirements

Public Health: (18 credits)

BIOSTATS	540	Introductory Biostatistics
EHS	565	Environmental Health Practices
HPP	601	Application of Social and Behavioral Theories in Public Health Interventions
HPP	620	Introduction to the US Health Care System
HPP	624	Public Health Leadership (<i>beginning 2020</i>)
EPI	630	Principles of Epidemiology

Nutrition: (17 credits)

EPI	634	Nutritional Epidemiology
NUTRITN	572	Community Nutrition
NUTRITN	577	Nutritional Problems in the US
NUTRITN	640	Public Health Nutrition
NUTRITN	731	Nutritional Assessment
NUTRITN	793A	Graduate seminar (1 credit)
NUTRITN	794A	Graduate seminar (1 credit)

Electives: 3 credits

A 3-credit Graduate Course in Nutrition

4.1.2. Practicum: 3 credits

NUTRITN 698: Nutrition Practicum

4.1.3. Additional Coursework: 6 credits

NUTRITN 696R and NUTRITN 696S: Independent Study Project-Problems in PH Nutrition (Parts 1 & 2)

4.2 M.P.H. Online/DI Program

This is a 27-month program for a small number of interns who work concurrently on an online M.P.H. degree in Nutrition (providing 47 graduate credits) plus a Dietetic Internship. The program begins in May and ends in August of the following year.

4.3 Course Requirements

4.3.1. M.P.H. Online/DI Program

Public Health: 18 credits

BIOSTATS	540	Introductory Biostatistics
EHS	565	Environmental Health Practices
HPP	601	Application of Social and Behavioral Theories in Public Health Interventions
HPP	620	Introduction to the US Health Care System
HPP	624	Public Health Leadership (<i>beginning 2020</i>)
EPI	630	Principles of Epidemiology

Nutrition: 17 credits

EPI	634	Nutritional Epidemiology
NUTRITN	572	Community Nutrition
NUTRITN	577	Nutritional Problems in the US
NUTRITN	640	Public Health Nutrition
NUTRITN	731	Nutritional Assessment
NUTRITN	793A	Graduate seminar (1 credit)
NUTRITN	794A	Graduate seminar (1 credit)

Electives: 3 credits

A 3-credit Graduate Course in Nutrition

Practicum: 3 credits

NUTRITN 698: Nutrition Practicum – Community rotation

Additional Coursework: 6 credits

NUTRITN 696R and NUTRITN 696S: Independent Study Project Problems in PH Nutrition (Parts 1 & 2)

4.3.2. Dietetic Internship Program Courses (12 credits total)

NUTRITN 698A - DI internship (Part 1)

NUTRITN 698B - DI internship (Part 2)

NUTRITN 698C - Food service rotation (Part 1)

NUTRITN 698D - Food service rotation (Part 2)

5. THE Ph.D. DEGREE

The doctoral program prepares individuals for teaching and research in academic institutions and for positions of professional leadership in health and health-related agencies where research is an important function. Doctoral applicants should have earned the Bachelor's degree and have demonstrated basic research competency through a required thesis (M.S. thesis or equivalent research experience). It is expected that an applicant has satisfied the criteria for admission to the M.S. degree. Otherwise, any deficiency must be completed before a student is allowed to take the comprehensive examination for the Ph.D. degree.

5.1. Program's Minimum Requirements

A total of 58 credits including the following:

1. **18 credits** (minimum) of Ph.D. Dissertation (NUTRITN 899).
2. **3 credits** of graduate Seminar. The student will present 3 seminars, all 3 may be in Nutrition or two in Nutrition and one in the Minor area.
3. **25 credits** in major concentration of Nutrition.
4. **12 credits** in minor concentration within SPHHS or another appropriate Ph.D.-granting program.
5. Passing a two-part Comprehensive Examination.
6. Completion and defense of a research dissertation.

NOTE: Detailed course requirements for the Ph.D. program are shown in the Appendices.

5.2. The Comprehensive Examination

Upon completion of the 40 credits of course work, the student must pass a comprehensive examination (see below) as specified in the Graduate School regulations. Only students who have passed the comprehensive examination are considered candidates for the Ph.D. degree. The examination consists of two parts:

Written examination: Each Ph.D. student is required to take the examination in Nutrition (major area). This exam focuses on 3 competency-based areas:

Part A: General Nutrition:

Public Health Nutrition

Basic Nutritional Biochemistry: Macronutrients

Basic Nutritional Biochemistry: Micronutrients

Methods for Nutrition Research

Part B: Biomedical Nutrition

Part C: Community-Based Nutrition

Oral examination: The oral examination will be held within 1-month after passing the written portion. It is a continuation of the written examination with added emphasis on the student's area of research interests and the minor area declared by the student. Additional guidelines are available from the Graduate Program Director.

Comprehensive exams (written and oral) will be scheduled in the fall and the spring. No summer comprehensive exams will be scheduled unless there is a specific exception or consideration.

A student may be allowed a second chance to pass any portion of the comprehensive exam. Two failures of any portion are grounds for dismissal from the program.

5.3. Dissertation Proposal and Oral Defense

Upon successful completion of the comprehensive examinations, students prepare a dissertation proposal that must be

approved by the student's dissertation committee before being submitted to the Graduate School. A copy of the dissertation must be in the Department Main Office for review by the faculty 10 business days before the scheduled oral defense.

The Ph.D. program can be completed in 3 years for students who have completed a master's degree in nutrition or closely related field. The actual length of time depends on background and the student's ability to complete the Dissertation Proposal and subsequent dissertation research.

6. GENERAL INFORMATION

6.1. Advisors and Supervisory Committees

Advisors will be appointed by the Graduate Program Director for all new graduate students before the student arrives on campus. These initial assignments will take into consideration the area of interest indicated by the student in the application to the program and that of the faculty member. Students will register for courses based on completed prerequisites and course offerings. Students will work with their advisors in selecting courses.

Before enrollment in their second semester at UMass, master's students should define their area of research and develop an agreement with a faculty member to supervise their work. Doctoral students should define their research focus no later than their second year. Requests for change in advisor should be directed to the Graduate Program Director. The student and the thesis/project advisor would then develop a progress plan based on whether the student will be completing the M.S. Thesis or Non-thesis Option; the M.S. Non-thesis/ DPD Option; the M.P.H., or the Ph.D. (see Appendices).

The M.S. thesis option requires that a research proposal be prepared and approved by a Thesis Committee consisting of 2-3 members (including Chair); all members can be from the Department of Nutrition.

For Ph.D. students, research committees consist of a minimum of 3 members: the Chair, 1 member from the Department of Nutrition, and 1 member from outside the Department (a UMass Amherst faculty member with graduate status). The approved dissertation proposal must be filed with the Graduate School **no less than 7 months before the dissertation defense.**

In general, the thesis and dissertation proposals should be approved before data collection is initiated. The thesis and dissertation committees are appointed by the Graduate Dean upon recommendation by the Graduate Program Director.

Student Research Assistants (RAs) are usually supported by funds ear marked to specific research projects under the supervision of the principal investigator of that project. Continuation of support will be tied to availability of funds as well as meeting obligations of the specific research project. Changing of advisor and/or research project will entail, in most cases, termination of support from that project's funds. Teaching Assistantships (TAs) are also associated with specific duties in specific courses and continued support depends on fulfilling these duties.

6.2. Seminars and Meetings

6.2.1. Graduate Seminar

The graduate seminar is designed for students to gain experience in organizing and presenting research studies and in critically analyzing research findings. It is also an opportunity for students, faculty, and staff to learn about new nutrition research while engaging in discussions about current issues in nutrition.

All graduate students are expected to attend the Department graduate seminar whether or not they are taking it

for graded credit. M.S. and online M.P.H. degree candidates are required to present two seminars (2 credits in 2 separate semesters) before graduation. Ph.D. students are required to present 3 seminars, all 3 may be in Nutrition or 2 in Nutrition and 1 in the Minor; the third can be in either area.. **To enhance progress toward completing degree requirements, the student's first seminar presentation should focus on the literature reviewed by the student in association with his/her thesis or project.** Otherwise, seminars usually involve detailed discussion of a specific topic or a research report. At various times, seminars in the Department are scheduled for presentations by Departmental faculty or visiting specialists. **All graduate students are expected to attend.**

6.2.2. Journal Club

The Journal club is an informal forum for discussing current literature and debating timely issues in nutrition with fellow students and faculty members. Participants will choose the topic or topics to present. All students are encouraged to attend journal club meetings.

6.2.3. Research Group Meetings

Faculty may schedule regular group meetings as part of the expectations for participation in their research program. Discussions of current research from journal articles, sharing of progress on the design or implementation of experiments, presentation of preliminary results, and preparation for thesis or dissertation defenses and professional conferences will occur at these meetings. Expectations for attendance and participation at these meetings are determined by the individual faculty.

6.2.4. Research Summits

Research Summits will be scheduled periodically during the academic year to address continuing professional development on issues to facilitate nutrition research. Suggestions for topics are welcome at any time. Past topics have included choosing dietary analysis software, analyzing qualitative data, using new library search and reference tools, etc. All graduate students are encouraged to attend Research Summits.

6.2.5. Professional Conferences

All students are strongly encouraged to attend and present their work at professional conferences and meetings. Attendance at national conferences, such as the Academy of Nutrition and Dietetics, American Society for Nutrition, American Public Health Association, American College of Nutrition, Society for Epidemiologic Research, and the Society for Nutrition Education is an excellent way to learn about cutting edge research, gain presentation skills, network for career and internship opportunities, and gain new perspectives. Local and regional meetings include the annual Massachusetts Dietetic Association conference and regular meetings of the Western Area Massachusetts Dietetic Association (WAMDA). Campus meetings include the annual Virginia Beal Lecture and Dinner sponsored by the Department, and the Annual Research Day hosted by the School of Public Health and Health Sciences. ***All students are strongly encouraged to present a poster of their work during Research Day.***

6.3. Semester Course Credit and Work Load

The maximum credit load is 15 credits (9 in summer), including audits. An overload of up to 18 credits needs approval by the Graduate Program Director. Enrolling in more than 18 credits/semester requires a memorandum of justification and must be approved by the Graduate Dean.

The Graduate School defines the maximum number of hours that a graduate student can work per week as not exceeding 40 hours. This total includes: all assistantship hours, all extra compensation hours, and any credit hours (1 regular or audit credit = 1 hour worked; thesis and dissertation credits are not counted).

6.4. Academic Standing

Under the current rules of the Graduate School, a student must maintain a 3.0 overall cumulative average in all graduate courses in his/her major field. A student whose cumulative grade point average falls below 2.80 is placed on academic probation. If, at the end of the ensuing semester, the cumulative average remains below 2.80, he/she is subject to academic dismissal upon the recommendation of his/her major Department.

6.5. Scholarships and Fellowships

6.5.1. Scholarships

The Department of Nutrition offers 3 scholarships established by funds established in the names of retired professors Virginia A. Beal, Helen S. Mitchell and Peter L. Pellett. These scholarships are granted annually during the fall semester to 3 or more graduate students in nutrition. Announcements are posted to all graduate students before the end of the fall semester. Applications are submitted through AcademicWorks. Evaluation is based on the student's academic performance at UMass judged by the GPA for at least one semester. Available funds vary for each scholarship and for each year.

6.5.2. Doctoral Fellowship

Established by funds donated by Professor Virginia A. Beal, this fellowship is designated to support a doctoral student. The fellowship is established to provide one semester of support for a doctoral student in Nutrition that also provides waiver of tuition and fees for that semester. The fellowship will be awarded yearly to one student who demonstrates excellent academic achievement.

6.6. Fellowship and Assistantship Obligations

Students admitted to all graduate programs in SPHHS are eligible to receive on-campus assistantships offered in departments **within the SPHHS only**. Matriculated students may receive scholarships, fellowships, and other forms of on-campus employment within and outside the SPHHS **with approval**. For additional information about financial aid services, please view the Financial Services website at: <http://www.umass.edu/umfa/graduate-students>.

Teaching and research assistantships are available primarily to PhD students on a competitive basis. Stipends depend on source of funding and length of time in the program. In addition to 97% of the Health fees, holders of assistantships and certain fellowships or scholarships qualify for waiver of tuition and fees. A limited number of Graduate School Fellowships are available on a competitive basis.

Graduate students financially supported on assistantships or fellowships (except when specifically exempted by the nature of the assistantship or fellowship) are obligated to provide 20 hours (full-time appointment) of service per week to the assigned project. Vacation time is based on the agreement between the Graduate Employee Organization (GEO) and the University. Requests should be cleared with the advisor, the Graduate Program Director, and/or the Department Head.

6.7. Progress Reports

On an ongoing basis, students and advisors should work together to keep a record of progress and milestones (see Appendices). In addition, **each year all graduate students will complete an Annual Graduate Student Evaluation Form in consultation with their advisor or committee Chair and submit it to the Graduate Program Director who will review them with the Graduate Committee (see Appendix)**. Annually, the Graduate Committee will meet with faculty Chairs to discuss students' progress of work completed, work in-progress, and work planned for the next semester/year. In addition, all students should meet regularly with their advisors to discuss course work and project progress, career preparation and development, upcoming presentations or other issues. M.P.H. online students should consult with their advisor via email, Skype, Zoom, etc.

These periodic progress reports serve many purposes that are mainly to the benefit of the student. They are necessary to properly plan and evaluate the research program. They greatly simplify both the non-thesis project and the thesis preparation and writing, and provide practice in reporting results -- a frequent weakness of technical writers.

6.8. M.S. Thesis/Ph.D. Dissertation

The Graduate School's "Guidelines for Master's Theses and Doctoral Dissertations" should be consulted regarding the details for preparing the M.S. thesis or Doctoral Dissertation (for more information go to: http://www.umass.edu/gradschool/sites/default/files/thesis_and_dissertation_guidelines.pdf)

In addition to the electronic copy required by the Graduate School, the student should also consult with his/her committee to determine whether hard copies are desired by each member. The style used in preparing and writing the thesis or dissertation should conform to one of the styles used in Nutrition scientific journals (e.g. the APA style). A copy of the thesis, dissertation, or special project must be in the Department Main Office for review by the faculty 10 business days before the scheduled oral examination. Expected formats for dissertation proposals/M.S. theses are:

6.8.1. Dissertation or Thesis Proposals

- I. Introduction
 - Overview
 - Statement of problem
- II. Literature Review (Complete)
- III. Purpose of the Study
 - Objectives/Research Hypothesis
- IV. Methods
 - Sample
 - Study design
 - Data Collection measures
 - Statistical analysis
 - Anticipated timeline
- V. References

6.8.2. Final Dissertation or Thesis

- I. Introduction
 - Overview
 - Statement of problem
- II. Literature Review (Complete)
- III. Purpose of the Study
 - Objectives/Research Hypothesis
- IV. Methods*
 - Sample
 - Study design
 - Data Collection measures
 - Statistical analysis
- V. Results*
- VI. Discussion
 - Findings related to literature and research questions
 - Limitations
- VII. Summary and Conclusions
 - Implications
 - Future Research Recommendations
- VIII. Appendices

Informed consent
Survey questionnaires
Data collection forms
Other documents requested by advisor/committee members (e.g. publications, raw data, etc.)

IX. References

***NOTE:** Doctoral students may include a minimum of 3 publishable manuscripts in lieu of the methods and results sections, one of which may be a systematic review of the literature.

Students are expected to complete all graduation requirements before leaving the campus to accept a position elsewhere. Failure to do so may result in considerable time and financial inconveniences to the student.

6.10. Articles for Publication

The faculty advisor may request that the student prepare a manuscript in a form ready for publication in a suitable journal or for presentation at a professional meeting. Guidance from the faculty advisor is extremely helpful at this juncture to expedite completion of this effort. The objectives of these requirements are to:

- 1) ensure prompt publication of worthwhile research contributions;
- 2) give the student training in the preparation of a scientific and technical manuscript; and
- 3) provide training in presenting research results to professionals and peers.

Concerns regarding authorship listings and credits to those contributing to the article should be discussed with the advisor at an early stage, sometimes even before the work on the project is started, to avoid any conflicts at time of publication. Some committee Chairs may require that students sign a contract regarding publication of thesis research.

6.11. Professional Organizations

Membership in professional organizations is an excellent way to stay abreast of research and policies and participate in professional activities with other students and faculty. The American Society for Nutrition, Academy of Nutrition and Dietetics, American Public Health Association, Society for Epidemiologic Research and Society for Nutrition Education are but a few of the national professional organizations that offer journal subscriptions, annual conferences, legislative updates, and other services. Students can join at reduced fees. Locally, students can become members of the Western Area Massachusetts Dietetic Association (WAMDA) and attend meetings at reduced costs. On campus, all graduate students are invited to join and participate in the activities of the Students in Graduate Nutrition (SIGN) group as well as the UMass Nutrition Association (UMNA). Both student organizations sponsor activities to promote the interests of nutrition students.

7. USE/CARE OF BUILDING, UNIVERSITY PROPERTY, FACILITIES

7.1. Closing and Use of Building

Chenoweth Laboratory is a smoke-free building. The building will be locked during the early evening hours on Mondays through Fridays; and all day on Saturdays, Sundays and holidays. Use of building facilities by unauthorized persons is prohibited. Keys to outside doors and specific rooms or laboratories within this building may be issued to graduate students when authorized by the Head of the Department. Such keys are obtained through your advisor and must be returned before departure from the University. Duplication of keys is strictly prohibited. Door keys are not to be borrowed or lent. Students using the building after hours will be held responsible for its proper use and should exercise reasonable conservation measures in use of heat, water, and electricity. **Turn off lights when you leave!**

7.2. Use of Facilities

Department equipment and facilities are to be used only in connection with work that has been authorized by the Department. Equipment is not to be removed from the building without approval of the Head/Chair of the Department. After use, equipment must be cleaned and returned to its customary storage space. Do not remove equipment from a laboratory without approval of the faculty member in charge. Equipment and facility damage or failure must be reported to the faculty member in charge so repairs can be made.

Computers (with ethernet connections to the University server and OIT) are available for use by students at several locations (library, TA room, and some laboratories). **DO NOT store any of your data on these computers.** You are expected to exercise proper use and care for departmental computers and for providing your own paper for printing. Make sure that the computer you use is turned off when you are done and that the room is securely closed if you are the last person leaving the room.

All nutrition graduate students are welcome to use the TA room (Room 210-A in the Old Cold Storage Building) to study or work on TA or RA duties. Shared desk space is available in this room. Please keep this room clean and organized and turn out lights when you leave.

7.3. Housekeeping

Students assigned to a laboratory or office area are expected to follow good housekeeping practices in all areas where they may have occasion to work.

7.4. Laboratory and Other Safety Precautions

It is expected that all graduate students will become familiar with standard laboratory and human subject safety precautions. Information about online trainings may be found at: <http://www.umass.edu/research/research-compliance>

Major areas of compliance include:

- Animal subjects - <http://www.umass.edu/research/compliance/animal-subjects>
- Human subjects - <http://www.umass.edu/research/compliance/human-subjects-irb/training-education-and-outreach/citi-training-human-subjects-research>
- Research ethics - <http://www.umass.edu/research/compliance/research-ethics>
- Research safety and security (including Hazardous Waste Management) - <https://ehs.umass.edu/trainings>

In case of accidents requiring emergency treatment, contact the University Health Services or the Ambulance. Graduate students, who are employed by the University, should, upon treatment of injury, file a Report of Injury with the Departmental Office within 48 hours.

7.4.1. Fire Alarm

Students should familiarize themselves with the location and method of operation of fire-fighting equipment. In case of fire, the following steps should be taken:

- Close doors to the fire area.
- Activate the building fire alarm system (alarm boxes located in hallways).
- Dial 911 to report the location of the fire.
- Evacuate the building.

7.4.2. Important Numbers

7.4.2.1. Emergency Numbers

Fire/Police/Ambulance.....	911
Police	5-2121
Safety Escort Services.....	5-2123
Maintenance (Physical Plant).....	5-6401
Health Services	7-5000
Univ. Switchboard	"0"

7.4.2.2. Department Numbers

Dr. Elena Carbone.....	545-1071
Dr. Soonkyu Chung.....	545-3228
Dr. Lorraine Cordeiro.....	545-9701
Nicole Goldstein.....	545-1078
Dr. Young-Cheul Kim.....	577-4553
Dr. Zhenhua Liu.....	545-1075
Dr. Christy Maxwell.....	545-1066
Dr. Sarah-Gonzalez Nahm.....	545-1079
Claire Norton.....	545-1077
Dr. Lindiwe Sibeko.....	545-1693
Dr. Lisa Troy.....	545-4238
Heather Wemhoener.....	545-0552
(Main Office).....	545-0740
TA Office.....	545-3975

7.4.3. *In Case of Fire:*

1. Close doors to the fire area
2. Activate building **Fire Alarm** system
3. Report fire - Dial 911
4. Evacuate Building (use stairs, not the elevator)

8. EQUIPMENT AND SUPPLIES

The Department operates on an honor system with respect to equipment and supplies. This places the burden of responsibility on all Department personnel, including graduate students. Everyone's cooperation is therefore needed to insure that all equipment is maintained in good condition.

Individual course instructors are responsible for all equipment and supplies used by their classes. Any graduate student wishing to use class equipment or supplies must obtain permission from the appropriate course instructor.

Equipment should not be removed from any laboratory to another without permission. Students must obtain the consent of the appropriate faculty member before using any equipment and be sure that they are familiar with their proper operation and care.

The student's advisor bears the responsibility for all equipment and supplies used and ordered by graduate students in their charge. Any graduate student wishing to order any equipment or supplies should do so through his/her advisor. Students should attempt to anticipate needs for chemicals and supplies well in advance in view of the time necessary between processing the orders and actual delivery.

9. GENERAL OFFICE REGULATIONS

It is essential that we maintain our operations on an efficient and businesslike basis. To accomplish this end, the following guidelines are effective:

1. To use any of the equipment or request any of the services of the General Office, graduate students will work through their faculty advisor.
2. Department telephones are not for personal use. For incoming telephone calls, office staff will take the message and place a note in the student's mailbox.
3. Office computers are to be used only by those working in that office. Graduate students can use the computers designated for students' use in the library, TA room, or in the labs where they work.
4. Office supplies: such as paper, pads, pencils, etc., are in limited supply and cannot be furnished to graduate students other than for course related material for teaching assistants assigned to these courses.
5. Photocopying of materials for seminar or class handouts may be done by Department staff. The student must work with the advisor or professor in charge of seminar to obtain this service. Students authorized to use the copying machine for material related to their duties as TAs or RAs will be issued the proper code numbers needed to log onto the copier. Copying class reports, term papers, etc. is not allowed on the Department's copier. **No work will be done by Department staff unless authorized by the appropriate faculty member.**
6. The Graduate School and the Nutrition Office should be notified of any change in address or telephone number. Students leaving the area permanently should notify the post office well in advance of departure.
7. Students are expected to check their mailboxes and email frequently. For Department communications, we use the UMass email address on record at the university. **If you regularly use a different email account, please set your UMass email to forward it to the one you check often.**

NAME: _____ Starting Date: _____

M.S. THESIS & NON-THESIS

PRE-REQUISITES FOR ADMISSION*These requirements do not apply to the MS/DPD non-thesis program.*

Basic Science Core*		Nutrition Core**	
Introductory Zoology or Biology (1 semester)		NUTRITN 352 Lifecycle Nutrition	
Human Physiology (1 semester)		NUTRITN 430 Nutrition and Metabolism	
Chemistry, General with lab (2 semesters)			
Chemistry, Organic (1 semester)			
Biochemistry (1 semester)			
Microbiology (1 semester)			
Basic Nutrition (1 semester)			

***Basic Science Core:** At least 5 out of 7 of these courses (or equivalent) must be taken before matriculation. Basic Nutrition (or a closely related course) must be one of these five. The remainder must be taken while enrolled in the M.S., but not for graduate credit.

****Nutrition Core:** These courses (or their equivalent) must be taken by those who do not have a BS degree in nutrition. These may be taken while enrolled in the M.S., but not for graduate credit.

M.S. REQUIREMENTS: THESIS (31-34 Credit) & NON-THESIS (34 Credits)*These requirements do not apply to the MS/DPD non-thesis program.*

Advanced Core (21 credits)			
NUTRITN 630 Biochemical and Molecular Nutrition: Macronutrients	3	NUTRITN 793/4 Grad. Seminar (1 credit) #1	1
NUTRITN 640 Public Health Nutrition	3	NUTRITN 793/4 Grad. Seminar (1 credit)	1
NUTRITN 714 Biochemical and Molecular Nutrition: Micronutrients	3	BIOSTATS 540 Introductory Biostatistics	3
NUTRITN 741 Methods in Nutrition	3	EPI 630 Principles of Epidemiology	3
SPHHS 600 Great Challenges in Public Health and Health Sciences II (<i>beginning 2020</i>)			1
Electives/Courses			
A. Thesis Only (3 credits)			
1. NUTRITN XXX	3		
B. Non-Thesis Only (12 credits)			
1. NUTRITN XXX	3	3. NUTRITN –OR- OUTSIDE DEPT COURSE	3
2. NUTRITN XXX	3	4. OUTSIDE DEPT COURSE	3
Culminating Experience			
A. Thesis Only (7-10 credits)			
NUTRITN 699 M.S. Thesis			
B. Non-Thesis Only (1 credit)			
NUTR 697W - ST Advanced Writing Seminar	1	.	

NAME: _____ Starting Date: _____

M.S. NON-THESIS/DPD

PRE-REQUISITES FOR ADMISSION

Basic Science/Social Science Core*		Nutrition Core**	
Introductory Biology (1 semester)		NUTRITN 352 Lifecycle Nutrition	
Human Anatomy and Physiology (1 Chemistry, General with lab (2 semesters)		NUTRITN 430 Nutrition and Metabolism	
		NUTRITN 210 Scientific Food Principles and Meal Planning [or] FOODSCI 150 The Science of Food [or] FOODSCI 160 The Nature of Food	
Chemistry, Organic (1 semester)			
Biochemistry (1 semester)			
Microbiology (1 semester)			
Basic Nutrition			
Psychology, Sociology, or Anthropology			

***Basic Science/Social Science Core:** At least six (6) of these courses (or equivalent) must be taken before matriculation. Human nutrition and Anatomy & Physiology (or equivalent) must be among the six. The remainder must be taken while enrolled in the M.S., but not for graduate credits.

****Nutrition Core:** These courses (or their equivalent) must be taken by those who do not have a B.S. degree in nutrition. These may be taken while enrolled in the M.S., but not for graduate credit.

M.S. NON-THESIS/DPD REQUIREMENTS (45 credits)

Business Requirements (9 credits) – for DPD			
MGT 301 Principles of Management	3		
HTM 250 Food Service Management [or] HTM 350 Food Service Management	3	MGT 314 Human Resource Management [or] HTM 260 Human Resource Management in Hospitality Industry	3
Advanced Core (21 credits)			
NUTRITN 630 Biochemical and Molecular Nutrition: Macronutrients	3	NUTRITN 793/4A Graduate Seminar (1 credit)	1
NUTRITN 640 Public Health Nutrition	3	NUTRITN 793/4A Graduate Seminar (1	1
NUTRITN 714 Biochemical and Molecular Nutrition: Micronutrients	3	BIOSTATS 540 Introductory Biostatistics	3
NUTRITN 741 Methods in Nutrition	3	EPI 630 Principles of Epidemiology	3
SPHHS 600 Great Challenges in Public Health and Health Sciences II (<i>beginning 2020</i>)			1
Other Graduate Nutrition Courses (15 credits)			
NUTRITN 572 Community Nutrition	3	NUTRITN 580 Medical Nutrition Therapy	4
NUTRITN 577 Nutritional Problems in the US	3	NUTRITN 597M Special Topics in MNT	1
NUTRITN 585 Pract Skills Nutr Counseling	3	NUTRITN 697W–ST Adv Writing Seminar	1
NUTRITN 730 Molecular Signaling in Nutrition	3		

NAME: _____ Starting Date: _____

Accelerated B.S./M.S. (4+1)

PRE-REQUISITES FOR ADMISSION

Students can apply to the accelerated master's program in February of their junior and senior year. Students will need to have earned a GPA of at least 3.5 and have completed the following courses:

- Nutrition 230
- Nutrition 372 (formerly 391C)*
- KIN 270 and 272
- BIO 151
- CHEM 111 and 112
- CHEM 261 or 250

*Students may take this class in the spring semester they apply to the 4+1 program. All other undergraduate requirements, including BIOCHEM 420, NUTR 430, and NUTR 352 must be completed prior to starting the MS.

M.S. REQUIREMENTS: B.S./M.S. (4+1) (34 Credits)

Advanced Core (21 credits)			
NUTRITN 630 Biochemical and Molecular Nutrition: Macronutrients	3	NUTRITN 793/4 Grad. Seminar #1	1
NUTRITN 640 Public Health Nutrition	3	NUTRITN 793/4 Grad. Seminar #2	1
NUTRITN 714 Biochemical and Molecular Nutrition: Micronutrients	3	BIOSTATS 540 Introductory Biostatistics	3
NUTRITN 741 Methods in Nutrition	3	EPI 630 Principles of Epidemiology	3
SPHHS 600 Great Challenges in Public Health and Health Sciences II (<i>beginning 2020</i>)			1
Electives/Courses (12 credits)			
1. NUTRITN XXX	3	3. NUTRITN –OR- OUTSIDE DEPT COURSE	3
2. NUTRITN XXX	3	4. OUTSIDE DEPT COURSE	3
Culminating Experience (1 credit)			
NUTR 697W - ST Advanced Writing Seminar	1		

Electives		
Students may choose four (4) elective courses from the list below.		
NUTR 572	Community Nutrition	3
NUTR 578	Nutritional Problems in the Developing World	3
NUTR 580	Medical Nutrition Therapy	4
NUTR 585	Practical Skills in Nutrition Counseling	3
NUTR 597J	Nutritional Genomics	3
NUTR 597K	Culture Nutrition and Health	3
NUTR 597S	Nutrition and Cancer Prevention	3
NUTR 678	Topics in International Nutrition	3
NUTR 730	Molecular Signaling in Nutrition	3
Other Elective \geq 500 level	Course from another department	3

NAME: _____ Starting Date: _____

Ph.D.

PRE-REQUISITES FOR ADMISSION

Basic Science Core*		Nutrition Core**	
Introductory Zoology or Biology (1 semester)		NUTRITN 352 Lifecycle Nutrition	
Human Physiology (1 semester)		NUTRITN 430 Nutrition and Metabolism	
Chemistry, General with lab (2 semesters)			
Chemistry, Organic (1 semester)			
Biochemistry (1 semester)			
Microbiology (1 semester)			
Basic Nutrition (1 semester)			

***Basic Science Core:** At least 5 out of 7 of these courses (or equivalent) must be taken before matriculation. Basic Nutrition (or a closely related course) must be one of these five. The remainder must be taken while enrolled in the M.S., but not for graduate credit.

****Nutrition Core:** These courses (or their equivalent) must be taken by those who do not have a BS degree in nutrition. These may be taken while enrolled in the M.S., but not for graduate credit.

Ph.D. REQUIREMENTS (58 Credits)¹

Nutrition Major Area Courses (25 credits)			
<i>These courses cannot count toward Ph.D. credits if already taken to fulfill another graduate degree.</i>			
NUTRITN 630 Biochemical and Molecular Nutrition: Macronutrients	3	NUTRITN 741 Methods in Nutrition Research	3
NUTRITN 640 Public Health Nutrition	3	NUTRITN XXX (Elective or Indep. Study)	3
NUTRITN 714 Biochemical and Molecular Nutrition: Micronutrients	3	BIOS 540 ² Introductory Biostatistics	3
NUTRITN 730 Molecular Signaling in Nutrition	3	EPI 630 ³ Principles of Epidemiology	3
SPHHS 600 Great Challenges in Public Health and Health Sciences II (<i>beginning 2020</i>)			1
Seminars (3 credits)			
NUTRITN 793/4 Grad. Seminar #1	1	NUTRITN 793/4 Grad. Seminar #3	1
NUTRITN 793/4 Grad. Seminar #2	1	[or] MINOR AREA Grad. Seminar	
Minor Area Courses (12 credits)			
1.		3.	
2.		4.	
Culminating Experience: Dissertation (minimum of 18 credits)			
NUTRITN 899 Dissertation			

NOTES:

- Students interested in pursuing the DPD (to become a Registered Dietitian) should go to the Undergraduate Dietetics Track webpage for additional course information: <http://www.umass.edu/sphhs/nutrition/undergraduate-program/dietetics-track>
- BIOS 540 (Intro Biostats) may be counted as either part of the 24 credits in major concentration of Nutrition [or] part of the 12 credits in minor concentration of BIOS. Advanced Biostats (BIOS 640) will also be required for certain research topics.
- EPI 630 (Principles of Epi) may be counted as either part of the 24 credits in major concentration of Nutrition [or] part of the 12 credits in minor concentration in EPI.

NAME: _____ Starting Date: _____

ONLINE M.P.H. REQUIREMENTS

PUBLIC HEALTH CORE COURSES (18 credits)	
BIOSTATS 540 Introductory Biostatistics	
EPI 630 Principles of Epidemiology	
HPP 601 Application of Social and Behavioral Theories in Public Health Interventions	
HPP 620 Introduction to the U.S. Health Care System	
HPP 624 Public Health Leadership (<i>beginning 2020</i>)	
EHS 565 Environmental Health Practices	
NUTRITION CORE COURSES (18 credits)	
EPI 634 Nutritional Epidemiology	
NUTRITN 572 Community Nutrition	
NUTRITN 577 Nutritional Problems in U.S.	
NUTRITN 731 Nutritional Assessment	
NUTRITN 640 Public Health Nutrition	
NUTRITN Elective	
GRADUATE SEMINARS (2 credits)	
NUTRITN 793A Grad. Seminar (1 credit) # 1	
NUTRITN 794A Grad. Seminar (1 credit) # 2	
PRACTICUM (3 credits)	
NUTRITN 698 120-240 hours of field training. Name of Site: _____ Name of Preceptor: _____	
ADDITIONAL COURSES: NUTRITN 696R (3 credits) and 696S (3 credits) = 6 credits	
Course # 1	
Course # 2	

POSSIBLE COURSE SEQUENCE FOR 2 -YEAR ONLINE M.P.H/DI PROGRAM {TRACK 2}

COURSEWORK (44 credits)	CREDITS	DIETETIC INTERN (DI) ACTIVITIES (12 credits)
YEAR 1		
SUMMER (Seminar is May - June; July and August are free of traditional coursework)		
NUTR 793A: Seminar	1	
FALL		
NUTRITN 572: Community Nutrition	3	DI work – 30 hr/semester
BIOSTATS 540: Introductory Biostatistics	3	
EHS 565: Environmental Health Practices	3	
NUTRITN 698C: DI Practicum(foodservice, part 1)	3	Foodservice rotation - 10 hr/wk
SPRING		
NUTRITN 640: Public Health Nutrition	3	8 hr budget project, 4 hr public policy, 50 hr seminar
HPP 601: Application of Social and Behavioral Theories in Public Health Interventions	3	
EPI 630: Principles of Epidemiology	3	
NUTRITN 698D: DI Practicum (foodservice – part 2, continued from fall)	0	Foodservice rotation - 10 hr/wk + presentation
YEAR 2		
SUMMER (Seminar is May - June; July and August are free of traditional coursework)		
NUTRITN 731: Nutritional Assessment	3	
NUTRITN 698: DI Practicum (community)	3	Community rotation/PH Practicum, presentation - 240 hr
NUTRITN 794A: Seminar	1	
FALL		
NUTRITN 577: Nutritional Problems in the US	3	
EPI 634: Nutritional Epidemiology	3	
NUTRITN 696: Independent Study Project (part 1)	3	Includes 52 hr research/abstract
NUTRITN Elective [online course \geq 500 level]	3	
SPRING		
HPP 620: Intro to the US Healthcare System	3	
NUTRITN Elective [online course \geq 500 level]	3	
NUTRITN 696: Independent Study Project (part 2)	3	
NUTR 698E: DI Practicum (clinical, part 1)	3	Includes 120 hr clinical, 48 hr at the VA, 64 hr plan-your-own rotation, 60 hr seminar, 4 hr volunteer, presentation
NUTR 698F: DI Practicum (clinical, part 2)	3	312 hours of clinical rotation

For more information about the DI program, contact Dr. Christy Maxwell at: cmaxwell@nutrition.umass.edu

M.S. PROGRESS & MILESTONES

THESIS OPTION

NAME: _____

AREA OF INTEREST: _____

STARTING DATE: _____

STATUTE OF LIMITATION: _____

ADVISOR: _____

	PROJECTED DATE	ACTUAL DATE
COMPLETION OF COURSE WORK:	_____	_____
THESIS COMMITTEE APPOINTMENT:	_____	_____

MEMBERS:

- a. _____ (Chair)
- b. _____
- c. _____

THESIS PROPOSAL

1. FIRST DRAFT	_____	_____
2. FINAL DRAFT	_____	_____

THESIS TITLE: _____

THESIS DEFENSE & EXIT EXAM: _____

Announced to Department: _____

OFFICIAL GRADUATION DATE: _____

M.S. PROGRESS & MILESTONES

NON-THESIS OPTION

NAME: _____

AREA OF INTEREST: _____

STARTING DATE: _____

STATUTE OF LIMITATION: _____

ADVISOR: _____

	PROJECTED DATE	ACTUAL DATE
COMPLETION OF COURSE WORK:	_____	_____

NOTES:

OFFICIAL GRADUATION DATE: _____

M.P.H. ONLINE PROGRESS & MILESTONES

NAME: _____

AREA OF INTEREST: _____

STARTING DATE: _____ STATUTE OF LIMITATION: _____

ADVISOR: _____

	PROJECTED DATE	ACTUAL DATE
COMPLETION OF COURSE-WORK:		
A. Public Health Core	_____	_____
B. Nutrition Core	_____	_____
PRACTICUM:		
– Organization:	_____	_____
– Supervised by:	_____	_____
ADDITIONAL COURSEWORK		
A. Courses (6 credits)	_____	_____

FACULTY ADVISOR:

OFFICIAL GRADUATION DATE: _____

Ph.D. PROGRESS & MILESTONES

NAME: _____

AREA OF INTEREST: Major _____ Minor _____

STARTING DATE: _____

STATUTE OF LIMITATION: _____

ADVISOR: _____

	PROJECTED DATE	ACTUAL DATE
COMPLETION OF COURSE WORK:		
A. Major, Nutrition	_____	_____
B. Minor _____	_____	_____
COMPREHENSIVE EXAMINATION:		
Written:	_____	_____
Oral:	_____	_____
	Date recommended:	Date appointed:
COMMITTEE APPOINTMENT		
MEMBERS:	_____	_____
1. _____ (Chair)		
2. _____		
3. _____ (Outside member)		
DISSERTATION PROPOSAL		
Completed:	_____	_____
Approved:	_____	_____
DISSERTATION		
• FIRST DRAFT:	_____	_____
• FINAL DRAFT:	_____	_____
• DISTRIBUTION TO COMMITTEE	_____	_____
DEFENSE SCHEDULED with GRADUATE SCHOOL	_____	_____
DISSERTATION DEFENSE DATE: _____	_____	_____
OFFICIAL GRADUATION DATE: _____		

ANNUAL GRADUATE STUDENT EVALUATION FORM

Student's Name: _____

Advisor's Name: _____

Date of Graduate Review: _____

MAJOR ADVISOR

- Assessment of student's progress:
 - Courses for major
 - Courses for minor – PhD only
 - Written comprehensive exam – PhD only
 - Oral comprehensive exam – PhD only
 - Proposal defense
 - Final defense
- Include **specific recommendations** regarding what the student needs to achieve between now and the next review to maintain good standing (if needed, please attach a statement from the student).

Advisor's Signature: _____ Date: _____

GRADUATE COMMITTEE

As a result of this evaluation, the Graduate Committee found you to be (circle one):

IGS = In Good Standing NI = Needs Improvement SC = Show Cause Hearing
 (develop a contract for completion)

The criteria for ratings (other than IGS) are as follows:

1. Excessive incompletes in coursework (two or more)
2. Failure to make satisfactory progress toward degree
3. Failure to complete M.S. after admission to the Ph.D. program

Comments:

GPD Signature _____ Date: _____

Original to Student; Copy to Departmental File

NUTRITION FACULTY RESEARCH/AREAS OF INTEREST

FACULTY MEMBER**Elena T. Carbone**

Professor and Chair
DrPH, UNC Chapel Hill, 1999
Phone: 413-545-1071
Email: ecarbone@umass.edu

Soonkyu Chung

Associate Professor
PhD, UNC Greensboro, 2006
Phone: 413-545-3228
Email: soonkyuchung@umass.edu

Lorraine Cordeiro

Associate Professor
PhD, Tufts, 2007
Phone: 413-545-9071
Email: lcordeiro@nutrition.umass.edu

Nicole Goldstein*

Lecturer
Undergraduate Program Advisor
MS, University of Massachusetts Amherst, 2002
Phone: 413-545-1078
Email: nicolegoldst@umass.edu

Sarah Gonzalez-Nahm

Assistant Professor
PhD, UNC Chapel Hill, 2016
Phone: 413-545-1079
Email: snahm@umass.edu

Young-Cheul Kim

Associate Professor
PhD, Knoxville, TN, 1995
Phone: 413-577-4553
Email: yckim@nutrition.umass.edu

Zhenhua Liu

Associate Professor
Graduate Program Director
PhD, Auburn University, 2003
Phone: 413-545-1075
Email: zliu@nutrition.umass.edu

RESEARCH/AREAS OF INTEREST

Health literacy/Maternal health literacy
Multicultural and low-income groups
Community-based nutrition education
Theory-based behavior change

Brown fat and thermogenesis
Adipocyte iron signaling
Bioactive compounds and obesity

Food security
Multicultural nutrition
Adolescent nutrition

Undergraduate education
Nutrition education

Maternal and child nutrition
Obesity prevention
Social determinants of health

Nutrition and gene expression
Fat cell metabolism

Nutritional epigenetics
Obesity and inflammation
Cancer prevention

Christy Maxwell

Lecturer

Director, Dietetic Internship Program

PhD, University of Massachusetts Amherst, 2018

Phone: 413-545-1066

Email: cmaxwell@nutrition.umass.edu

Dietetics education

Weight stigma/bias

Claire Norton*

Senior Lecturer, DPD Director

Undergraduate Program Director

MS, Trinity College, Dublin, 1984

Phone: 413-545-1077

Email: cpnorton@nutrition.umass.edu

Eating disorders treatment

Intuitive eating

Anna Maria Seiga-Riz

Professor

Dean, School of Public Health & Health Sciences

PhD, UNC Chapel Hill, 1993

Phone: 413-545-2526

Email: asiegariz@umass.edu

Maternal and child health

Pregnancy

Epidemiology

Lindiwe Sibeko

Associate Professor

PhD, McGill University, 2008

Phone: 413-545-1693

Email: lsibeko@umass.edu

Maternal and child health

Breastfeeding equity and lactation

Child and adolescent health

Lisa Troy

Associate Professor

Honors Program Director

PhD, Tufts University, 2007

Phone: 413-545-4238

Email: lisatroy@nutrition.umass.edu

Diet quality measures

Menopause

Heather Wemhoener

Lecturer

Online Program Director

MS, University of Massachusetts Amherst, 2012

Phone: 413-545-0552

Email: hmorin@umass.edu

Prejudice about body weight and size

Intuitive eating

(* These individuals do not supervise graduate students.)

EMERITUS FACULTY

Jean Anliker

Professor Emeritus
PhD, University of Massachusetts Amherst, 1985
Email: janliker@nutrition.umass.edu

Community nutrition
Theory-based nutrition education
Obesity prevention for children and families

Mokhtar T. Atallah

Professor Emeritus
PhD, Washington State, 1973
Email: matallah@nutrition.umass.edu

Dietary fiber and mineral interactions
Physiological effects of fiber

Nancy L. Cohen

Professor Emeritus
PhD, California (Davis), 1984
Email: cohen@nutrition.umass.edu

Community nutrition
Nutrition education of older adults
Distance learning

John Cunningham

Professor Emeritus
PhD, University of Maryland, 1978

Computer mediated telecommunications
Nutrition education - internet bulletin board
Interactive distance Ed & Access (IDEA)

ADJUNCT FACULTY

Elizabeth Bertone-Johnson

Adjunct Professor
PhD, Harvard, 1999

Premenstrual syndrome, reproductive and cardiovascular health in women, Vitamin D

Sang-Woon Choi

Associate Adjunct Professor
PhD, Seoul National University, 1992

Epigenetic and genetic mechanisms underlying carcinogenesis, with emphasis on folate and B12

A. Reed Mangels

Adjunct Faculty Member
PhD, University of Maryland (College Park), 1989

Vegetarian nutrition

David Sela

Associate Adjunct Professor
PhD, University of California (Davis), 2010

Nutritional microbiology and plant-based systems

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