INTERNATIONAL HEALTH, MSPH/RD

International Health, MSPH/RD
Program Coordinator: Vanessa Garcia-Larsen, MSc MEd PhD

Requirements for Admission
The program seeks to attract and train future experts in public health nutrition across a range of professional interests and background. Entry into the Master of Science in Public Health (MSPH) program in Human Nutrition requires, at a minimum, a bachelor’s degree or its equivalent, preferably in nutrition, biology, health or social sciences, public health, health, economics, or health policy. For more information please go to the MSPH-RD homepage (https://www.jhsph.edu/departments/international-health/global-health-masters-degrees/master-of-science-in-public-health/registered-dietitian-program/).

Advising Faculty
- Laura Caulfield
- Vanessa Garcia-Larsen


Program Requirements
Course location and modality is found on the JHSPH website (https://www.jhsph.edu/courses/).

Students will be expected to enroll each term, satisfy the educational requirements, and successfully complete a practicum experience and write a capstone. Students must also pass a written comprehensive exam. A minimum of 16 total credits of coursework per term is required. Of these, approximately 64 credits are associated with directed coursework usually completed in the first year, a minimum of 28 credits are associated with a practicum experience, and minimum of 4 credits with a capstone usually completed during the second year.

Students are required to take specific courses in each of four core content areas in order to develop specific competencies: Nutrition and Health, Biochemistry and Metabolism, Research Methods, and Professional Skills. Approximately 53 course credits are associated with these core content areas common to all MSPH students. MSPH-RD students are required to take an additional 12 credits of required coursework. Within these required classes, all students must complete coursework in environmental health and management sciences. To complete the remainder of their coursework requirements, students will choose elective coursework and special studies in conjunction with their adviser, depending on their unique career goals.

Nutrition Practicum
The MSPH-RD practicum in collaboration with the dietetics program at the Johns Hopkins Bayview Medical Center (JHBMC) offers students the opportunity to earn both the MSPH degree and complete the dietetics practicum in preparation for obtaining the RD credential. The integrated program has been granted accreditation status by The Accreditation Council for Education in Nutrition and Dietetics (ACEND) of The Academy of Nutrition and Dietetic (A.N.D.) 120 South Riverside Plaza, Suite 2000, Chicago, Illinois 60606-6995, 1-800-877-1600, ext. S400.

For those accepted for this option, a $500 deposit is required by March 1st, 2020 to secure placement for the practicum, which occurs from June 2020 through February 2021. See the Bayview MSPH/RD Program (http://www.hopkinsmedicine.org/johns_hopkins_bayview/education_training/additional/master_science_public_health_registered_dietitian_program/). The $7500 clinical training fee for the practicum is due September 1st, 2020 (with second year first term tuition). Like all MSPH students, those in the RD practicum program, must also complete the MSPH capstone.

Human Nutrition Course Requirements
All required courses must be taken for a letter grade with the exception of courses only offered for pass/fail.

IMPORTANT NOTE: Courses taken to meet one group of requirements may NOT be used to meet another group of requirements

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<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>General/Professional Skills</td>
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<tr>
<td>PH.220.600</td>
<td>International Travel Preparation, Safety, &amp; Wellness</td>
<td>1</td>
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<tr>
<td>PH.222.840</td>
<td>Special Studies and Research Human Nutrition</td>
<td>1</td>
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<tr>
<td>PH.222.860</td>
<td>Graduate Nutrition Seminar</td>
<td>1</td>
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<tr>
<td>PH.550.860</td>
<td>Academic &amp; Research Ethics at JHSPH</td>
<td>1</td>
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<tr>
<td>Nutrition and Health</td>
<td></td>
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<tr>
<td>PH.222.641</td>
<td>Principles of Human Nutrition in Public Health</td>
<td>4</td>
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<tr>
<td>PH.222.657</td>
<td>Food and Nutrition Policy</td>
<td>2</td>
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<tr>
<td>PH.222.642</td>
<td>Assessment of Nutritional Status</td>
<td>3</td>
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<td>PH.222.644</td>
<td>Cellular Biochemistry of Nutrients</td>
<td>3</td>
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<tr>
<td>PH.222.654</td>
<td>Food, Culture, and Nutrition</td>
<td>4</td>
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<tr>
<td>PH.222.655</td>
<td>Nutrition and Life Stages</td>
<td>3</td>
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<tr>
<td>PH.222.658</td>
<td>Critical Thinking in Nutrition</td>
<td>1</td>
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<tr>
<td>Research Methods, Biostatistics: Chose one of the following series for a total of 16 credits</td>
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<tr>
<td>PH.140.621</td>
<td>Statistical Methods in Public Health I</td>
<td>4</td>
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<tr>
<td>PH.140.622</td>
<td>Statistical Methods in Public Health II</td>
<td>4</td>
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<tr>
<td>PH.140.623</td>
<td>Statistical Methods in Public Health III</td>
<td>4</td>
</tr>
<tr>
<td>PH.140.624</td>
<td>Statistical Methods in Public Health IV</td>
<td>4</td>
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| OR
| PH.140.651 | Methods in Biostatistics I                     | 4       |
| PH.140.652 | Methods in Biostatistics II                    | 4       |
| PH.140.653 | Methods in Biostatistics III                   | 4       |
| PH.140.654 | Methods in Biostatistics IV                    | 4       |
| Research Methods, Epidemiology                |
| PH.340.721 | Epidemiologic Inference in Public Health I     | 5       |
| Environmental Health: Choose one of the following The courses not chosen may be used to satisfy the elective requirement |
| PH.180.602 | Environment and Health in Low and Middle income Countries | 2       |
| PH.180.611 | The Global Environment, Climate Change, and Public Health | 4       |
| PH.180.660 | Introductory Principles of Environmental Health | 3       |
| PH.180.601 | Environmental Health                           | 5       |
| PH.182.640 | Food- and Water- Borne Diseases                | 3       |
| PH.187.610 | Public Health Toxicology                      | 4       |

Public Health Toxicology

International Health, MSPH/RD 1
Budgeting, choose one of the following
PH.552.621  Basic Resources Management for Public Health  1
PH.552.622  Creating, Implementing and Monitoring Budgets for Projects and Programs  1

Management Sciences, choose one of the following
PH.312.600  Managing Health Services Organizations (This course also fulfills the budget requirement)  4
PH.312.601  Fundamentals of Management for Health Care Organizations  3
PH.312.655  Organizational Behavior and Management  2
PH.221.602  Applications in Managing Health Organizations in Low and Middle income Countries  3
PH.380.681  Strategic Leadership Principles and Tools for Health System Transformation in Developing Countries  4

Leadership and Interprofessional Practice
PH.552.625  Building Collaborations Across Sectors to Improve Population Health  1
PH.552.623  Principles of Negotiation and Mediation for Public Health Professionals  0.5
PH.552.624  Applications of Negotiation and Mediation for Public Health Professionals  0.5

Additional MSPH/Registered Dietitian Required Courses:
PH.260.600  Introduction to the Biomedical Sciences  4
PH.182.640  Food- and Water- Borne Diseases  3
PH.222.651  Nutrients in Biological Systems  2
PH.222.652  Nutrition in Disease Treatment and Prevention  3
PH.222.661  Designing Healthy Diets  2
PH.222.840  Special Studies and Research Human Nutrition (Developing Skills in Clinical Nutrition (Terms 1-4))  1
PH.552.621  Basic Resources Management for Public Health  1

Year 2 Requirements
PH.222.815  Human Nutrition · Registered Dietitian (Rd) Program Practicum  28+
PH.222.850  Msph Capstone Human Nutrition  4

Code  Title  Credits
Recommended Electives (18-23 Credits)

Food Systems and Production
PH.180.620  An Introduction to Food Systems and Public Health  4
PH.180.655  Baltimore Food Systems: A Case Study of Urban Food Environments  4
PH.180.606  Case Studies in Food Production and Public Health  4

Nutrition
PH.222.647  Nutrition Epidemiology  3
PH.221.611  Food Security and Nutrition in Humanitarian Emergencies  2
PH.222.649  International Nutrition  3
PH.340.644  Epidemiology of Diabetes and Obesity  2
PH.700.603  Introduction to Ethical Theory  3
PH.222.840  Special Studies and Research Human Nutrition (Developing Skills in Clinical Nutrition) Terms 1-4  1

Research Methods
PH.224.689  Health Behavior Change At the Individual, Household and Community Levels  4
PH.340.722  Epidemiologic Inference in Public Health II  4
PH.223.664  Design and Conduct of Community Trials  4
PH.224.690  Qualitative Research Theory and Methods  3
PH.410.690  Ethnographic Fieldwork  3
PH.221.660  Systems Science in Public Health: Basic Modeling and Simulation Methods  3
PH.222.653  Food Technology and Health  3
PH.222.661  Designing Healthy Diets  2
PH.222.652  Nutrition in Disease Treatment and Prevention  3
PH.224.691  Qualitative Data Analysis  3

International Health and Disease
PH.220.601  Foundations of International Health  4
PH.221.627  Issues in the Reduction of Maternal and Neonatal Mortality in Low income Countries  4
PH.223.663  Infectious Diseases and Child Survival  3
PH.221.611  Food Security and Nutrition in Humanitarian Emergencies  2
PH.223.680  Global Disease Control Programs and Policies  4

Population, Behavior and Health
PH.380.604  Life Course Perspectives on Health  4
PH.380.744  Nutrition and Growth in Maternal and Child Health  3
PH.224.689  Health Behavior Change At the Individual, Household and Community Levels  4
PH.380.600  Principles of Population Change  4
PH.380.642  Child Health and Development  3
PH.380.611  Fundamentals of Program Evaluation  4
PH.380.623  Adolescent Health and Development  3

Research Ethics
PH.306.665  Research Ethics and integrity: U.S. and International Issues  3
PH.700.630  Global Food Ethics  3
PH.306.655  Ethical Issues in Public Health  3

MSPH REGISTERED DIETITIAN PROGRAM JOHNS HOPKINS BAYVIEW MEDICAL CENTER CLINICAL NUTRITION DEPARTMENT DIETETIC EDUCATION CLINICAL ROTATION

The start date for the program is June 2021 and the completion date is 3rd term AY 21-22. The Clinical Nutrition Department will arrange for RD students to attend the Johns Hopkins Bayview Medical Center orientation on June 10th and June 21st. The public health rotations will tentatively start January 6, 2020. Three weeks of vacation are scheduled around Thanksgiving (1 week) and the end of December/beginning of January (2 weeks).

To participate in the nutrition practicum students will need to:

• Provide official transcripts for any prerequisites completed after application submitted to JHSPH
• Provide proof of immunizations including
  • Hepatitis B Vaccination*
  • Measles, Mumps, & Rubella Vaccination*
  • Varicella Vaccination*
  • Tetanus & Diphtheria Vaccination*
• Receive an influenza vaccine at JHSPH (Fall 2020)*
• Provide proof of current health insurance coverage through March of 2021
• Provide proof of car insurance coverage through March of 2021 (only if using a car for transportation in program)
• Complete a physical at the JHBM Occupational Department*
• Have a TB test* or provide a current lung x-ray
• Consent to a Criminal Background Check
• Join the Academy of Nutrition and Dietetics (student membership)

* Included in the RD Practicum course fee in the 2nd year.

**MSPH/RD PUBLIC HEALTH ROTATION OBJECTIVES**

1. Perform ethically and professionally in accordance with the values of the Academy of Nutrition and Dietetics and Johns Hopkins Bayview Medical Center when speaking, writing and interacting with patients and other health care professionals.

2. Use current technologies for information and communication avenues for nutrition information.

3. Conduct an assessment of current public health problems associated with nutrition.
   • Identify the major problems of public health importance to the underserved populations
   • Perform literature review on public health problem

4. Perform analysis on data from an identified public health problem.

5. Identify sources of data relevant to a public health problem

6. Use data to assess the magnitude of a public health problem

5. Evaluate an identified public health problem in terms of its biological, cultural, and behavioral context.
   • Identifies the behavioral framework of a public health problem
   • Comprehends the cultural framework of a public health problem
   • Demonstrates understanding of the biological framework of a public health problem

6. Collaborate in the development of prevention and control plans for key public health problems.
   • Reviews theories used to guide nutrition interventions
   • Becomes familiar with social scientific contributions to nutrition with a focus on culture

7. Participate in methods of assessing nutritional status to characterize a sample population.
   • Identifies important indicators of nutritional status and their relative strengths and weaknesses
   • Performs techniques of measurement

8. Integrate epidemiology into problems of public health and nutrition.
   • Investigates principles and methods of epidemiology of infectious and noninfectious disease

9. Manage data collection and analysis in a research project.
   • Critique relevant literature on a topic
   • Analyze data collected

10. Complete self-assessment as part of professional development and evaluation.

**MSPH/RD PUBLIC HEALTH ROTATION**

The 8-week Public Health rotation should be chosen following the same guidelines as are given for the JHSPH Practicum Activity.

Students should spend some time considering what types of practicum from which they would enjoy learning and exploring potential opportunities. The practicum can be completed in a variety of settings; however, at this time the public health rotation for the dietetics practicum needs to be completed locally within the Baltimore/Washington/Northern VA area. Students can work with Hopkins field sites, NGOs, and within government agencies, for example, to fulfill the requirement. This wide range of options allows students to seek out that which will best suit their needs and interests, and there are many resources within the School to assist students with the process. These include the Office of Career Services (for resume assistance), the Department Internship Resource and Research Guide, the Faculty Coordinator of the student’s program area, and the student’s adviser to name a few. At minimum, students should meet with their adviser at the beginning of the process to get ideas and develop a plan for securing their practicum. However, it is ultimately the student’s responsibility to identify and secure the opportunity that will be most rewarding to them based on their interests and career goals.

The Public Health rotation must be nutrition-related. One contact person or primary preceptor must be identified for this rotation. This individual must be a professional who is licensed in the field in which they practice, if applicable, and must agree to help facilitate your completion of the rotation objectives and competencies (attached). In addition, there needs to be an RD or dietetics professional at the site or as a supervisor/preceptor of the rotation. You are expected to accumulate at least 320 hours (8 weeks, 40 hrs per week) of supervised practice during this rotation.

The Public Health rotation must be approved by the JHBMC Practicum staff. Rotation options should be identified by the student at the beginning of the dietetics practicum, with final approval by August 15th. All sites will need to enter into a legal agreement with JHBMC prior to the student beginning the rotation. Any JHSPH rotation sites will be excluded from agreement necessity.

Once an appropriate practicum is selected, the student should complete the Public Health Rotation Site Identification form.

**Primary Preceptor** is defined as the following: Individual in the supervised practice facility who oversees the practical experience and training provided to a student/intern for a particular rotation(s), maintains appropriate contact with the program director and student/intern to coordinate planned learning experiences and assignments and conducts the student/intern evaluation. Contact with a preceptor with less than one year of professional or technical experience should be only for observation or times when specific learned activities identified by the primary preceptor are being practiced.

**Supervised practice** is defined as the following: Planned learning experiences in which knowledge, understanding and theory are applied to real-life situations; may be augmented by role-playing, simulation, case studies and/or other experiences in which students/interns actually perform tasks that contribute to acquisition of the competencies.

Public Health Rotation Sample Sites
• American Institute for Cancer Research
• Food Supplement Nutrition Education Program
• International Food Information Council Foundation
• Program for the Introduction and Adaptation of Contraceptive Technology
• NIH Division of Nutrition Research Coordination
• JHSPH Dept. of Pharmacology and Molecular Science (Dr. Fahey)
• JHSPH Dept. of International Health (Dr. Gittelsohn)
• JHSH WIC (Dr. Gross)
• Baltimore City Public Schools
• U MD Extension Expanded Food and Nutrition Education Program
• Northrop Grumman
• University of MD, School of Medicine, Challenge (Dr. Black)
• MD Dept. of Aging, Health Promotion Program
• Moveable Feast • Maryland DHMH, Center for Chronic Disease Prevention and Control
• Baltimore City Office of Sustainability, Baltimore Food Policy Initiative
• Office of the State Superintendent of Education, DC
• Arlington County Health Department, Office of Parks and Recreation, Office of Community Health
• CareFirst BlueCross BlueShield
• Academy of Nutrition and Dietetics Legislation and Policy
• American Heart Association • Center for Science in the Public Interest
• NIH/National Kidney Disease Education Program
• Partnership for a Healthier America
• Additional sites available pending JHBMC approval

PUBLIC HEALTH ROTATION WRITTEN PROJECTS
1. The student will review and identify nutrition problem in within public health location or organization, lists barriers associated with improving this issue, and potential solutions to overcoming these barriers. Summarizes in written assignment using the Written Project Evaluation Form. The paper will be submitted to the preceptor on location prior to the completion of rotation. Not to exceed 5 typed pages double spaced.

2. In public health rotations, student will observe interdisciplinary work at a group meeting and investigates the role of at least two other disciplines (other than nutrition) in a prevention and control project in public health. Student will present findings in a written report using the Written Project Evaluation Form. The paper will be submitted to the preceptor on location prior to the completion of rotation. Not to exceed 5 typed pages double spaced.

3. In public health rotations, student researches the history and creation of the chosen site/project and projects the magnitude of the public health issue. Discusses findings in a written report using the Written Project Evaluation Form. The paper will be submitted to the preceptor on location prior to the completion of rotation. Not to exceed 5 typed pages double spaced.

4. The student will describe their public health rotation experience in a written summary not to exceed five typed pages. The student should evaluate the strengths and areas for development for the location or organization that sponsored the student’s public health experience. The paper will also summarize the activities completed during the rotation. The paper will be submitted to the MSPH/RD Program Coordinator, who will grade the report using the Written Project Evaluation Form.

Departmental Practicum and Capstone (http://e-catalog.jhu.edu/public-health/departments/international-health/international-health-msph/#programpoliciesstext)Policy and Guidelines

Educational Objectives
The MSPH program in Human Nutrition is designed to train professionals to focus on understanding and solving public health problems in food and nutrition across a diverse societal landscape. The MSPH degree in Human Nutrition prepares students to assume professional, technical, and management positions within public health nutrition programs or government, international or non-governmental agencies, universities, hospitals and private industry. The program also offers a broad public health nutrition component that complements dietetics skills acquired in the combined MSPH-RD program (see below). The MSPH program also prepares students with a foundation of knowledge and skills for carrying out subsequent doctoral studies and research in the field of human nutrition, or training in medicine.

Overall Program Goal
There are four overarching academic competencies that students are expected to master during the course of their masters’ degree program. Students should:

• Demonstrate knowledge of public health nutrition problems and characterize these problems in terms of measurable indicators
• Identify nutrition problems of public health importance; analyze and synthesize relevant data; and develop and implement prevention, control, and evaluation plans
• Participate in a field, laboratory or clinical experience related to nutrition research or programs from conception of ideas through design, management, monitoring, data collection, and analysis
• Communicate through written reports, oral presentations and other media nutrition information of high technical quality and program or policy relevance