NUTRITION EPIDEMIOLOGY AND DATA SCIENCE DEGREE REQUIREMENT WORKSHEET FOR AY 2022-2023

Interim Division Chair: Fang Fang Zhang
*This is NOT an Official Transcript or Record*

Student Name: ____________________________  Academic Advisor: ____________________________

NEDS-MS Degree Semester Hour Units Requirement: A minimum of 48

NEDS-PhD Degree Requirements: Students admitted directly to the PhD program must complete a minimum of 12 Semester Hour Units of coursework while enrolled at the Friedman School and are required to fulfill all the course requirements for the MS degree as listed below in addition to the PhD Additional Requirements listed below. Fulfilling these requirements may be through enrollment in these required courses at the Friedman School, or by submitting an Exemption Petition to recognize preparation elsewhere (based on courses completed before starting the PhD degree or by courses completed during the PhD degree but not the Semester Hour Units (SHUs) requirements). For an Exemption of a required course or degree requirement, an Exemption Petition form must be completed. Approval of an Exemption does NOT decrease the minimum number of Semester Hour Units required for your degree program.

Complete Prior to First Semester:

Training in Protection of Human Subjects (CITI) Degree Requirement (complete prior to first semester): The hardcopy of your completed CITI Coursework Requirements Report PDF that indicates the Expiration Date and Reported Score for your completed Biomedical Researchers modules needs to be filed in your academic file folder and needs to be emailed to Friedman School’s Registrar so fulfillment of this degree requirement can be added to your academic record in SIS. CITI Training in Protection of Human Subjects Degree Requirement Fulfilled: YES ___ or NO ___

Graduating Semester - Approval of Intent to Graduate: For a Friedman School degree to be awarded, approval by the faculty (NEDS Academic Advisor and NEDS Division Chair) is required below in order for the Friedman School’s Dean and for the Board of Trustees of Tufts University to approve your official degree conferral.

Students in their last semester prior to graduation must complete this Degree Requirement Worksheet (using the Worksheet associated with the semester they were admitted to Friedman) and obtain the required approvals below. Submission of the approved Worksheet to the Friedman School’s Registrar is required for Graduation Checkout.

Based on my review of this worksheet and the student’s transcript this student will have met their requirements for graduation by: August (Summer) ______ or February (Fall) ______ or May (Spring) ______ in the Year: ______

Academic Advisor Approval: ____________________________  Date: ____________________________

Division Chair/Thesis Chair Approval: ____________________________  Date: ____________________________

<table>
<thead>
<tr>
<th>Course #</th>
<th>Course Title</th>
<th>SHU</th>
<th>Offered</th>
<th>Semester/Year Enrolled Mark on &quot;E&quot; for Exemption</th>
<th>Grade</th>
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</thead>
<tbody>
<tr>
<td><strong>Epidemiology and Biostatistics Required Skills Courses (24 SHUs):</strong></td>
<td></td>
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<tr>
<td>NUTR 0204</td>
<td>Principles of Epidemiology</td>
<td>3</td>
<td>Fall</td>
<td></td>
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<tr>
<td>NUTR 0206</td>
<td>Biostatistics I plus required Laboratory</td>
<td>3</td>
<td>Fall</td>
<td></td>
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<tr>
<td>NUTR 0237</td>
<td>Data Management Using SAS</td>
<td>3</td>
<td>Fall</td>
<td></td>
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<tr>
<td>NUTR 0240</td>
<td>Nutrition Science Journal Club (first of two-semester sequenced course)</td>
<td>0</td>
<td>Fall</td>
<td></td>
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<tr>
<td>NUTR 0240</td>
<td>Nutrition Science Journal Club (second of two-semester sequenced course)</td>
<td>0</td>
<td>Fall</td>
<td></td>
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<tr>
<td>NUTR 0309</td>
<td>Biostatistics II (prerequisite: NUTR 0206 or PH 0205; students that have not taken NUTR 0204: Principles of Epidemiology or equivalent coursework are strongly encouraged to take NUTR 0204 concurrently with NUTR 0309. Note: For MS/MPH students this course is an approved equivalent course for Tufts Public Health's course, PH 0206: Intermediate Biostatistics.</td>
<td>3</td>
<td>Spring</td>
<td></td>
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<tr>
<td>NUTR 0319</td>
<td>Intermediate Epidemiology (pre-requisites: SAS knowledge required, NUTR 0204, NUTR 0206 or equivalents, and NUTR 0309 or equivalents, or concurrently taking NUTR 0309 or equivalents, or instructor consent)</td>
<td>3</td>
<td>Spring</td>
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<tr>
<td>NUTR 0305</td>
<td>Nutritional Epidemiology (prerequisites: NUTR 0204, NUTR 0206 and NUTR 0309 or their equivalents; pre-requisites may not be taken concurrently with NUTR 0305)</td>
<td>3</td>
<td>Fall</td>
<td></td>
<td></td>
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<tr>
<td>NUTR 0393</td>
<td>Data Visualization and Effective Communication</td>
<td>3</td>
<td>Fall</td>
<td></td>
<td></td>
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<tr>
<td>NUTR 0394</td>
<td>Advanced Data Analysis</td>
<td>3</td>
<td>Fall</td>
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**Nutrition Science Required Skills Courses for all Specializations except the Biochemical and Molecular Nutrition Specialization (6 SHUs):**

| NUTR 0245 | Scientific Basis of Nutrition: Macronutrients (first of two-semester sequenced courses; common substitute: NUTR 0205 (fall) plus required in-person class sessions) | 3   | Fall    |                                                  |       |
| NUTR 0246 | Scientific Basis of Nutrition: Macronutrients (second of two-semester sequenced courses; common substitute: NUTR 0205 (spring) plus required in-person class sessions) | 3   | Spring  |                                                  |       |

**Specialization Requirement – Select one of the Specialization options listed below; consult with Division Chair for any course substitutions for the courses listed below in advance of enrollment:**

<table>
<thead>
<tr>
<th>Course #</th>
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<th>Grade</th>
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<tbody>
<tr>
<td>BCHM 0223</td>
<td>Graduate Biochemistry – (Friedman’s Registrar arranges cross-registration enrollment; please discuss with Division Chair potential options for cross-registration in an alternate course if prefer to complete in fall.)</td>
<td>6</td>
<td>Fall</td>
<td></td>
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<tr>
<td>NUTR 0370</td>
<td>Nutritional Biochemistry and Physiology: Macronutrients (prerequisites: NUTR 0202, NUTR 0208, BCHM 0223, or their equivalents)</td>
<td>4.5</td>
<td>Fall</td>
<td></td>
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<tr>
<td>NUTR 0371</td>
<td>Nutritional Biochemistry and Physiology: Micronutrients (prerequisites: NUTR 0202, NUTR 0208, BCHM 0223, or their equivalents)</td>
<td>4.5</td>
<td>Spring</td>
<td></td>
</tr>
</tbody>
</table>
**Course #** | **Course Title** | **SHU** | **Offered** | **Semester/Year Enrolled** | **Mark an “E” for Exemption** | **Grade**
--- | --- | --- | --- | --- | --- | ---
**Specialization Requirement – Select one of the Specialization options listed below; consult with Division Chair for any course substitutions for the courses listed below in advance of enrollment:**

**Global Nutrition Epidemiology Specialization Option (9 SHUs) – select three of the following courses:**

- **NUTR 0203** Fundamentals of Nutrition Policy and Programming (common substitution: NUTR 0206: Global Food and Nutrition Policy (summer) plus required in-person class sessions during the course’s MSNP Residency) 3 Fall
- **NUTR 0217** Monitoring and Evaluation of Nutrition and Food Security Projects (enrollment limited to 22 students) 3 Spring
- **NUTR 0227** International Nutrition Programs 3 Fall
- **NUTR 0228** Community and Public Health Nutrition (prerequisite: NUTR 0245 and NUTR 0246 or equivalent) 3 Fall
- **NUTR 0238** Economics for Food and Nutrition Policy 3 Spring
- **NUTR 0304** Nutrition, Food Security and Development (prerequisites: NUTR 0203 or NUTR 0206 and NUTR 0238 or instructor consent) 3 Fall
- **NUTR 0308** Nutrition in Emergencies Policies, Practice and Decision-Making 3 Spring
- **NUTR 0392** Nutrition Systematic Reviews and Knowledge Translation 3 Spring

**Nutrition Epidemiology and Data Analytics Specialization Option (9 SHUs):**

- **NUTR 0231** Fundamentals of GIS (enrollment limited to 20 students) 3 Fall/Spring

Select TWO of the following courses (Discuss with Division Chair if interested in enrolling in an alternate course substitute to be added in the blank row below):

- **GIS 0102** Advanced GIS (prior enrollment in GIS 0101 or equivalent recommended, cross-registration needed to enroll) 3 Spring
- **NUTR 0392** Nutrition Systematic Reviews and Knowledge Translation 3 Spring
- **NUTR 0393** Data Visualization and Effective Communication 3 Spring
- **NUTR 0394** Advanced Data Analysis 3 Fall

**Entrepreneurship and Innovation in Nutrition Optional Specialization (9 SHUs):**

Select at least 3 SHUs or more of these courses:

- **NUTR 0226** Food from Production to the Marketplace 3 Fall
- **NUTR 0280** Nutrition and Entrepreneurship 3 Spring

Plus at least 6 SHUs from this list of courses:

- **NUTR 0213** Social Media for Health & Nutrition Communication 1.5 Fall
- **NUTR 0273** Social Psychology of Eating Behavior 3 Spring
- **NUTR 0278** Corporate Social Responsibility in the Food Industry 3 Spring
- **NUTR 0284** Food Law and Regulation 3 Spring
- **NUTR 0306** Communicating Health Information to Diverse Audiences 1.5 Fall
- **NUTR 0344** Food Industry’s Role in Food System Sustainability 3 Fall
- **NUTR 0393** Data Visualization and Effective Communication 3 Spring

**Self-Designed Specialization in Area of Your Choice (a minimum of 9 SHUs):**

Must be at least 9 SHUs of coursework (only three SHUs may be a required course and only 3 SHUs may be a Directed Study course). Cross-registered courses and courses taken outside the Friedman School that are eligible for transfer of Semester Hour Units may be used for the Specialization.

**Specialization Title:**

<table>
<thead>
<tr>
<th>Self-Designed Specialization Course #</th>
<th>Course Title</th>
<th>SHU</th>
<th>Offered</th>
<th>Semester/Year Enrolled</th>
<th>Mark an “E” for Exemption</th>
<th>Grade</th>
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**OPTIONAL - Master’s Thesis - OPTIONAL (9 SHUs) [Click here to review the Master’s Thesis Guidelines for NEDS Students: https://nutrition.tufts.edu/sites/default/files/documents-forms/OptionalMastersThesisGuidelinesNEDS.pdf]**

**Important to Note:** The Master’s Thesis does not replace the Specialization requirement.

- **NUTR 0397** Preliminary Research (first summer semester) 3 Summer
- **NUTR 0397** Thesis Proposal (second fall semester) 3 Fall
- **NUTR 0407** Thesis (second spring semester) 3 Spring

List below any additional electives needed to fulfill the minimum 48 semester hour units requirement:

<table>
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**FOR PHD ONLY – ADDITIONAL REQUIREMENTS:**

- **NUTR 0249** Doctoral Seminar in Nutrition Epidemiology and Data Science - Meets the first and third Tuesday of every month (two-semester sequenced course required for PhD degree until graduation); this course is 0 SHUs with a Satisfactory/Unsatisfactory grading basis and is offered in the Fall and Spring semesters.

- Before passing the Qualifying Examination, PhD students must take one Advanced Epidemiology or Advanced Statistics course. Please discuss course options with Academic Advisor/Thesis Chair and meet with Division Chair for approval.

- Completion of Individualized Development Plan (myIDP; https://myidp.sciencecareers.org/) is required during the first semester as a doctoral student; only email completion date of myIDP to PhDForms@tufts.edu.

- Completion of Annual Progress Report (APR) is required and due by July 31st each year and a copy of the completed APR must be submitted to the Academic Dean via email to PhDForms@tufts.edu.

- Completion of the Doctoral Compact Form between PhD student and Thesis Chair (with optional participation of Thesis Committee or other mentors); complete this form in conjunction with the development of the Thesis Letter of Intent (must be completed in advance of first Thesis Committee Meeting) and email PhDForms@tufts.edu.