If a candidate has a master's degree in a related area, a minimum of 64 graduate hours, including up to 38 graduate hours of thesis research, must be completed. In consultation with the adviser and advisory committee, the remainder of the 64 graduate hours required for the degree consists of courses selected from inside or outside the department that are appropriate for training in the student's field of specialization. Upon completion of all necessary formal courses and special options, the student is required to take an oral preliminary examination. After passage of the preliminary examination, the student's activities are primarily devoted to thesis research. Upon submission of the dissertation, the candidate is required to pass a final oral examination before a graduate faculty committee.

Undergraduate training must include statistics (ACE 261, CPSC 241, ECON 202, MATH 161, PSYC 235, SOC 280, or STAT 100), nutrition (equivalent to FSHN 220), and systemic physiology (equivalent to MCB 246). These undergraduate courses are not required for admission, but must be completed early in the graduate program and do not count toward concentration requirements. M.S. degrees require at least 12 hours of 500-level course work (including thesis research), and at least 8 of these 12 hours must be in the major field for graduation.

Additional courses may be required beyond the concentration minimum, per Advisory Committee recommendations, depending upon student/advisor learning objectives. A student whose prior education includes course work with identical or similar content to those specified above will be guided by their advisor and Advisory Committee regarding the selection of additional course work needed to meet the minimum hours of the HN concentration.

Students are encouraged to take new courses, rather than retake required courses they have already taken. If you have already taken a required course at the University of Illinois, it is highly recommended that you do not retake it. No petition is required. If you have taken a very similar course at another university, you are strongly encouraged to petition for acceptance of that course in lieu of the required course. Courses should be selected to expand and strengthen your knowledge in core and related disciplines, and/or to increase your research capabilities. Retaking a course does not meet that objective. For additional advice on this topic, contact your advisor and faculty advisory committee.

Students are required to enroll in another seminar course if they have a conflict that precludes their enrollment in FSHN 597 or NUTR 500. The seminar course may be offered by another department.

Course selection is flexible beyond this list if decided in consultation with advisor/advisory committee.

For additional details and requirements refer to the department’s graduate handbook (http://fshn.illinois.edu/graduate/student-handbook/) and the Graduate College Handbook (http://www.grad.illinois.edu/gradhandbook/).

### Entering with approved M.S./M.A. degree

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
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<tr>
<td></td>
<td>Concentration-specific coursework selected in consultation with advisor</td>
<td>26</td>
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<tr>
<td>FSHN 599</td>
<td>Thesis Research (max applied toward degree)</td>
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### Entering with approved B.S./B.A. degree

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### Other Requirements

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Description</th>
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<td>Other requirements may overlap</td>
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<table>
<thead>
<tr>
<th>Requirement</th>
<th>Description</th>
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<tr>
<td>Minimum Hours Required Within the Unit</td>
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<tr>
<td>Minimum 500-level Hours Required Overall</td>
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<tr>
<td>Additional courses may be required beyond the concentration minimum per Advisory Committee recommendation</td>
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<tr>
<td>Qualifying Exam Required</td>
<td>Yes</td>
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<tr>
<td>Preliminary Exam Required</td>
<td>Yes</td>
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<tr>
<td>Final Exam/Thesis Defense Required</td>
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<tr>
<td>Dissertation Deposit Required</td>
<td>Yes</td>
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<td>Minimum GPA</td>
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Information listed in this catalog is current as of 04/2022
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<th>Code</th>
<th>Title</th>
<th>Hours</th>
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<tr>
<td></td>
<td><strong>Total Hours for Concentration in Food Science</strong></td>
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<td></td>
<td><strong>Required Courses:</strong></td>
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<tr>
<td>FSHN 481</td>
<td>Food Processing Unit Operations I</td>
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<tr>
<td>FSHN 483</td>
<td>Food Processing Unit Operations II</td>
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<tr>
<td>FSHN 514</td>
<td>Advanced Food Chemistry</td>
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<td>FSHN 573</td>
<td>Advanced Food Microbiology</td>
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<td>FSHN 593</td>
<td>Seminar in Foods and Nutrition</td>
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<td>FSHN 595</td>
<td>Advanced Topics in Food Science and Human Nutrition (Section: Nutrition for Food Scientists)</td>
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<td>FSHN 597</td>
<td>Graduate Seminar</td>
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<td>or NUTR 500</td>
<td>Nutritional Sciences Seminar</td>
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<td><strong>Electives:</strong></td>
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<td><strong>Food Processing and Engineering</strong></td>
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<td>FSHN 482</td>
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<td>FSHN 484</td>
<td>Food Processing Unit Operations II Lab</td>
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<td><strong>Food Chemistry</strong></td>
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<td>FSHN 595</td>
<td>Advanced Topics in Food Science and Human Nutrition (Section: Advanced Food Processing)</td>
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<td>FSHN 416</td>
<td>Food Chemistry Laboratory</td>
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<td>FSHN 517</td>
<td>Fermented &amp; Distilled Beverages</td>
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<td>FSHN 518</td>
<td>Chemistry of Lipids in Foods</td>
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<td>FSHN 519</td>
<td>Flavor Chemistry and Analysis</td>
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<td>FSHN 595</td>
<td>Advanced Topics in Food Science and Human Nutrition (Section: Transport in Food Biopolymers)</td>
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<tr>
<td>FSHN 595</td>
<td>Advanced Topics in Food Science and Human Nutrition (Section: Water Relations in Foods)</td>
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<tr>
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<td><strong>Food Microbiology</strong></td>
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<td>FSHN 574</td>
<td>Value Added Biotransformation</td>
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<td>FSHN 595</td>
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<td></td>
<td><strong>Others (of interest to many)</strong></td>
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<td>FSHN 424</td>
<td>Biopsychology of Ingestive Behavior</td>
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<td>FSHN 440</td>
<td>Applied Statistical Methods I</td>
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<td>FSHN 502</td>
<td>Advanced Sensory Science</td>
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<td>FSHN 592</td>
<td>Graduate Internship Experience</td>
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<td>FSHN 598</td>
<td>Advanced Special Problems (Up to 2 hours of FSHN 598 for thesis degrees.)</td>
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<tr>
<td>or NUTR 593</td>
<td>Individual Topics in Nutrition</td>
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<tr>
<td>CPSC 541</td>
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<td>NUTR 550</td>
<td>Grantsmanship and Ethics</td>
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*Information listed in this catalog is current as of 04/2022*