NUTRITION - BS, MOLECULAR AND EXPERIMENTAL TRACK

Nutritional sciences prepares majors with a comprehensive knowledge of the biological and social sciences to understand the relationships between nutrients, food components and human health. Prevention of diseases that are related to lifestyle, particularly diet and nutrition, is a focus of the curriculum. Core courses emphasize the role of nutrients in biochemistry, genetics, physiology, microbiology and immunology that promotes wellness and enhances the quality of life. The major also provides an excellent background for those interested in pursuing graduate degrees in biological, nutritional or food sciences; professional degrees in human or veterinary medicine; degrees in dentistry, pharmacy, physical therapy, nursing, public health and other health professions; or dietetic internships.

The Didactic Program in Dietetics (DPD) and the Graduate Degree/Dietetic Internship Program are accredited by the Accreditation Council for Education in Nutrition and Dietetics (ACEND). Students who successfully complete the DPD and a dietetic internship are eligible to take the Registration Examination to become a Registered Dietitian (RD).

Three curriculum tracks are offered (General Nutrition, Didactic Program in Dietetics and Molecular and Experimental Nutrition) to provide flexibility in one's chosen career path. The Nutrition major prepares one for graduate school, corporate wellness positions, health promotion programs, the food industry, public health programs, pharmaceutical sales, clinical dietetics, medical and research laboratories, biotechnology firms, government agencies and related fields. For more information, visit https://nutrition.tamu.edu/.

Molecular and Experimental Track

The Molecular and Experimental Track emphasizes a fundamental background in the biological and physical sciences that relate to human health and nutrition. This option offers students the opportunity to develop analytical and critical thinking skills through undergraduate research with department faculty, independent study and study abroad programs, and a science-based curricula that is essential for graduate studies and pre-professional schools. The goal of this track is to enable students to seek employment in specialized science-based fields in the biological or medical sciences, to pursue graduate degrees beyond the baccalaureate or to enter professional schools of medicine, veterinary medicine, dentistry, pharmacy or similar disciplines. See academic advisor for information on application procedures, GPA requirements, specific course listings and eligibility requirements.

Program Requirements

First Year

Fall

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 111</td>
<td>Introductory Biology I</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 119</td>
<td>Fundamentals of Chemistry I</td>
<td>4</td>
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<tr>
<td>ENGL 103 or ENGL 104</td>
<td>Introduction to Rhetoric or Composition</td>
<td>3</td>
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<tr>
<td>FSTC 210/ NUTR 210</td>
<td>Horizons in Nutrition and Food Science</td>
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Spring

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Semester Credit Hours</th>
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<tbody>
<tr>
<td>BIOL 111</td>
<td>Introductory Biology II</td>
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</tr>
<tr>
<td>CHEM 119</td>
<td>Fundamentals of Chemistry II</td>
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<td>American history (<a href="http://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#american-history">http://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#american-history</a>)</td>
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<td>Mathematics (<a href="http://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#mathematics">http://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#mathematics</a>)</td>
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Second Year

Fall

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<tbody>
<tr>
<td>CHEM 227</td>
<td>Organic Chemistry I</td>
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<tr>
<td>CHEM 237</td>
<td>Organic Chemistry Laboratory</td>
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<tr>
<td>ENGL 210</td>
<td>Technical and Professional Writing</td>
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<tr>
<td>NUTR 203</td>
<td>Scientific Principles of Human Nutrition</td>
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<tr>
<td>PHYS 201</td>
<td>College Physics</td>
<td>4</td>
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<tr>
<td>American history (<a href="http://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#american-history">http://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#american-history</a>)</td>
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Spring

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<tr>
<th>Course</th>
<th>Title</th>
<th>Semester Credit Hours</th>
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<tbody>
<tr>
<td>CHEM 228</td>
<td>Organic Chemistry II</td>
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<tr>
<td>CHEM 238</td>
<td>Organic Chemistry Laboratory</td>
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<tr>
<td>POLS 206</td>
<td>American National Government</td>
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<td>Select two of the following:</td>
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<tr>
<td>BIOL 413</td>
<td>Cell Biology</td>
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<td>BIOL 414</td>
<td>Developmental Biology</td>
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<tr>
<td>COMM 203</td>
<td>Public Speaking</td>
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<tr>
<td>COMM 315</td>
<td>Interpersonal Communication</td>
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<tr>
<td>COMM 325</td>
<td>Persuasion</td>
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<tr>
<td>HLTH 334</td>
<td>Women's Health</td>
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<tr>
<td>HLTH 354</td>
<td>Medical Terminology for the Health Professions</td>
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<tr>
<td>NUTR 485</td>
<td>Directed Studies</td>
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<td>NUTR 491</td>
<td>Research</td>
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<td>PHYS 202</td>
<td>College Physics</td>
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<tr>
<td>PSYC 300-499 (<a href="http://catalog.tamu.edu/undergraduate/course-descriptions/psyc/">http://catalog.tamu.edu/undergraduate/course-descriptions/psyc/</a>)</td>
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<tr>
<td>VTPP 425</td>
<td>Pharmacology</td>
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<td>Creative arts (<a href="http://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#creative-arts">http://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#creative-arts</a>)</td>
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<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Semester Credit Hours</th>
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Semester Credit Hours

17

14

17

16
### Third Year

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<thead>
<tr>
<th>Fall</th>
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<tbody>
<tr>
<td>BIOL 319</td>
<td>4</td>
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<tr>
<td>or VIBS 305</td>
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<tr>
<td>or Biomedical Anatomy</td>
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</tr>
<tr>
<td>NUTR 301</td>
<td>3</td>
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<tr>
<td>POLS 207</td>
<td>3</td>
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<tr>
<td>Language, philosophy and culture (<a href="http://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#language-philosophy-culture">http://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#language-philosophy-culture</a>)</td>
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<td><strong>Semester Credit Hours</strong></td>
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<tbody>
<tr>
<td>BIOL 320</td>
<td>4</td>
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<tr>
<td>or VTPP 423</td>
<td></td>
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<tr>
<td>or Biomedical Physiology I</td>
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<tr>
<td>GENE 301</td>
<td>3</td>
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<tr>
<td>GENE 312</td>
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<td>NUTR 365</td>
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<td>Select one of the following:</td>
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<tr>
<td>STAT 301</td>
<td>Introduction to Biometry</td>
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<td>STAT 302</td>
<td>Statistical Methods</td>
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<tr>
<td>STAT 303</td>
<td>Statistical Methods</td>
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<td><strong>Semester Credit Hours</strong></td>
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### Fourth Year

<table>
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<tr>
<th>Fall</th>
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<tbody>
<tr>
<td>BICH 410</td>
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<tr>
<td>BIOL 351</td>
<td>4</td>
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<tr>
<td>NUTR 469</td>
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<td>NUTR 491</td>
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<td><strong>Semester Credit Hours</strong></td>
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<table>
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<tbody>
<tr>
<td>BICH 411</td>
<td>3</td>
</tr>
<tr>
<td>BICH 431/GENE 431</td>
<td>3</td>
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<tr>
<td>CHEM 316</td>
<td>2</td>
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<tr>
<td>CHEM 318</td>
<td>1</td>
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<tr>
<td>NUTR 475</td>
<td>3</td>
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<tr>
<td>Social and behavioral science (<a href="http://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#social-behavioral-sciences">http://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#social-behavioral-sciences</a>)</td>
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<tr>
<td><strong>Semester Credit Hours</strong></td>
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| Total Semester Credit Hours | 120 |

1 MATH prefix required.

2 The Graduation requirements include a requirement for 3 hours of International and Cultural Diversity (http://catalog.tamu.edu/undergraduate/general-information/degree-information/international-cultural-diversity-requirements/) and 3 hours of Cultural Discourse (http://catalog.tamu.edu/undergraduate/general-information/degree-information/cultural-discourse-requirements/). Selection must be from courses on the approved list. Selection can be courses that also satisfy the requirement for social and behavioral sciences; creative arts; language, philosophy and culture; or electives. For more information on core requirements visit the University Core Curriculum (http://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/) catalog page.

A total of 120 hours is required for graduation; 36 hours of 300/400 level courses are required to meet the Texas A&M University residency requirement.