This handbook provides information about course requirements, scheduling, and recommendations for two degree options in food science. For up-to-date information on additional courses, admission, B.S. degree requirements, scholastic deficiency, financial aid and other topics not addressed in full detail in this handbook, refer to the Texas A&M University Undergraduate Catalog and Texas A&M University Rules and Regulations. Students are expected to comply with all policies and procedures set forth by Texas A&M University, and all affiliating institutions. Access to the Texas A&M University Undergraduate Catalog may be obtained at:

http://catalog.tamu.edu

This link will lead you to the main Texas A&M University Catalog page. Your catalog is the 2016-2017 Undergraduate Catalog.

NUTRITIONAL SCIENCES

Welcome to Nutritional Sciences! You are entering a rapidly growing and exciting field that allows you to build a strong background for many career opportunities such as dietetics, nutrition research, medicine, public health, or the food industry. The Department of Nutrition and Food Science offers undergraduate programs in Nutritional Sciences and Food Science and Technology.

For advising in Nutritional Sciences, contact:

Dr. Poppy Capehart ’75
Coordinator, Academic Programs
Senior Academic Advisor II
126 Cater Mattil
Phone: 979-845-2142
E-mail: poppy@tamu.edu

Fax Number: 979-862-6842

SUBSCRIPTION TO NUTRITION LISTSERV

Advisors use the Nutritional Science ListServ to send emails to our students to communicate job opportunities, scholarships, internships and other relevant information.

You can join the list by sending an e-mail to listserv@listserv.tamu.edu and in the BODY put

SUBSCRIBE nusc firstname lastname
Example: SUBSCRIBE nusc Rock T Aggie

You can remove your name from the list by sending an e-mail to listserv@listserv.tamu.edu and in the BODY put UNSUB nusc
ADVISING INFORMATION

Catalog Requirements
You are responsible for following the degree plan from the catalog in effect when you entered Texas A&M. For example, if you begin in the Department of Nutrition and Food Science as a freshman or transfer student in Fall of 2016 you will follow the Fall 2016 catalog for the duration of your time at Texas A&M. In order to prevent taking courses which do not meet current requirements, students should check with their advisors before selecting electives, including courses to meet requirements of the Core Curriculum.

Registration
Advising help sessions are scheduled by appointment the month before pre-registration begins. This is a good opportunity to visit with an advisor to discuss your schedule. If you are a continuing student in good standing, you are expected to pre-register. If you are on scholastic probation you will be blocked from registration until you meet with an advisor. Please call 845-2142 for more information. Registration is completed by going to howdy.tamu.edu and following the instructions.

Add/Drop, Withdrawal
The schedule for adding and dropping is listed online at howdy.tamu.edu. The policy for add/drop and withdrawal is in the current Undergraduate Catalog. The withdrawal process is done in the Dean’s Office of the College of Agriculture and Life Sciences in AGLS 515.

Scholastic Deficiency
You are responsible for knowing and abiding by probation and block procedures and requirements:

❖ Should your GPR drop below 2.000 you will be notified of:
  ▪ Placement on scholastic probation and placement of block from registration – must meet with major advisor to have block removed.

❖ A probation agreement will be signed with an advisor that describes the terms of your probation.
❖ Failure to meet this agreement will result in being blocked from registration and notification of procedures for withdrawal from Texas A&M University.
Student Name: ____________________________ UIN: ____________________________

Major ____________________________ Concentration: ____________________________

Email Address: ____________________________ Phone: ____________________________

Students placed on scholastic probation (GPR below 2.0) in the Department of Nutrition and Food Science must agree to the following conditions and expectations outlined in this document.

I understand that while on scholastic probation, I:

- Have been granted two semesters to clear probation, and I must meet the conditions of my first probation agreement to be allowed to continue to the second semester.
  
  Current GPR: ____________ Current Grade Point Deficiency: ______
  
  Must make up ______ points during the ____________________________ semester.

- Must be a full time student and take courses recommended by my advisor.

- Must complete Success Program through the Academic Success Center by the end of the semester of probation. Certification will need to be presented to an academic advisor. Date of mandatory Success Program meeting:
  ____________________________

- Must commit to attend every class as scheduled. If I am absent for school activities and/or personal issues, I am to meet with my course instructors to make up any missed work.

- Will change the habits that prevented me from being unsuccessful last semester (ie. work hours, social activities, attendance, study skills, etc.).

- Will contact a NFSC Advisor immediately if extenuating circumstances arise which may affect my final grades, course registration, or enrollment status.

- Understand that while on probation, my future course registrations will be blocked until I meet with a NFSC Advisor to review my progress and update the Scholastic Probation Agreement.

I understand that failure to meet the terms of this agreement will result in dismissal. The Department of Nutrition and Food Science does not readmit students once dismissed or those who transfer to another program while on probation. I agree to these terms of probation.

___________________________________________ ____________________________
Student Signature Date

___________________________________________ ____________________________
Advisor Signature Date

___________________________________________ ____________________________
Department Head or Academic Designate Date
REQUIREMENTS FOR A B.S. DEGREE IN NUTRITIONAL SCIENCES

A minimum of 120 semester hours must be completed. All courses on your appropriate degree plan must be completed. A minimum of 36 semester hours of 300 and/or 400 level coursework must be successfully completed in residence at Texas A&M University to obtain a baccalaureate degree. A minimum of 12 of those 36 hours must be in the major. See the current Undergraduate Catalog for more information.

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 (RDN).

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.

General Nutrition Track

The General Nutrition Track provides a strong knowledge base and fundamental understanding of nutrition principles supported by a wide range of approved electives in chemistry, statistics, genetics, nutritional biochemistry, microbiology, and psychology to prepare for careers in community nutrition, sports nutrition, education, public health/service or as technical representatives in the nutrition, health, food and allied industries. The goal of this curriculum is to give students a broad education in the nutritional sciences in preparation for a variety of career opportunities.

Teacher Certification.* The secondary Provisional Teaching Certificate may be obtained in conjunction with the Bachelor of Science degree in Nutritional Sciences, General Nutrition Track. There are three subject areas available for teacher certification through this degree: Chemistry (grades 7-12), Biology/Life Science (grades 7-12) and Science (grades 7-12).

All students taking this route must also complete the 18 credit hour STEM (Science, Technology, Engineering, Mathematics) Minor, which includes the following courses: TEED 302 or INST 310; TEFB 322; TEFB 324; RDNG 465; TEFB 406; TEFB 273 or INST 322. Substitutions must be approved by the Department of Teaching, Learning and Culture advisors. For teacher certification in Biology/Life Science, in addition to the STEM Minor, students must take the following technical electives, which are included in the General Nutrition Option: One Botany course (BIOL 301 or BIOL 302 or BIOL 328); one Ecology course (WFSC 402 or BIOL 357).
For teacher certification in Chemistry, there are no additional courses required, in addition to the STEM Minor.

Students interested in teacher certification should contact the teacher certification advisor in the Department of Teaching, Learning and Culture for more information.

*Pending Texas Higher Education Coordinating Board approval.

**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.

**Didactic Program in Dietetics Track**

The Didactic Program in Dietetics (DPD) is accredited by the Accreditation Council for Education in Nutrition and Dietetics (ACEND) and is designed to prepare students for meeting the requirements for the credential of Registered Dietician Nutritionist (RDN). The DPD provides a strong science base and foundational courses in nutrition for students desiring a dietetic practice in a clinical, therapeutic, community wellness, public health or food production/service setting. To be eligible to participate in the DPD program, students must maintain an overall GPR of 3.0 or above and have a grade of at least C in all non-nutrition courses and a grade of at least B in all nutrition courses.

**DPD PHILOSOPHY AND MISSION**

The DPD Program is designed to provide the knowledge and skills at the undergraduate level that are needed for competent dietetics practice. The curriculum is comprised of courses in nutrition, foods, biochemistry, physiology, management, social and behavioral sciences, and other supporting courses. Significant emphasis is placed on the development and demonstration of technical and critical thinking skills, oral and written communication ability and professionalism with the intent of more thoroughly preparing our undergraduates for graduate programs and the dietetic profession. Opportunities for the application of theoretical knowledge are provided through laboratory experiences, practicum exercises, and experiences with professionals in dietetics, nutrition, and foodservice on campus and in the Bryan/College Station community, and/or simulation in the classroom.

The mission of the Texas A&M University DPD Program is to prepare future leaders in the dietetic profession by providing a high quality undergraduate level education and experiential learning activities that generate strong technical, critical thinking and communication skills and professionalism.

The mission of the DPD Program is in accord with the University goal of achieving educational excellence while contributing to scholastic advancement, discovery research and community engagement that leads to economic development in Texas.
ADMISSION INTO THE MOLECULAR AND EXPERIMENTAL TRACK

All Nutritional Sciences students will enter the degree program within the General Nutrition Track. Students must apply to be accepted into the Molecular and Experimental Nutrition or Dietetic Tracks. The requirements and procedures for consideration are as follows:

1. In order to be considered for admission into the **Molecular and Experimental Track**, a student must:
   a) Complete at least 12 credit hours of science courses with a “C” or above.
   b) Have an overall GPR of 2.50. A “B” or better must be earned in all required NUTR and FSTC courses.
   c) Maintain these same GPR requirements to remain in the Molecular & Nutrition Track.

Admission, if granted, will be effective upon successful completion of the in-process courses; however, if all requirements are not met prior to the start of the next semester, admission will be revoked.

3. Transfer students will be admitted to the General Nutrition Track until they complete all requirements listed in items 1 or 2.

4. Students who wish to apply for either track must do so prior to completing 75 credit hours.

5. Change of curriculum students from another college or department at the University will be admitted to the General Nutrition Track until they complete all requirements listed in items 1 or 2.

6. If students do not meet the requirements listed above, the student will be placed back in the General Nutrition Track and must reapply and meet all requirements. Readmission into each track is at the discretion of the Department.
Eligibility Requirements for Participation in the Didactic Program in Dietetics (DPD) Program
Department of Nutrition and Food Science

In order to be eligible for participation in the Didactic Program in Dietetics (DPD) Program, students must complete all of the following:

1. Attend a mandatory DPD orientation meeting prior to participation in the DPD Program;

2. Have an overall GPR of 3.0 or above;
   a. Student must COMPLETE a minimum 12 credits at Texas A&M University before participation.

3. Satisfactorily COMPLETE CHEM 101, CHEM 111, CHEM 102, & CHEM 112 with a “C” or above; and
   a. Students who have completed additional non-nutrition DPD courses* must have a “C” or better in all of them.

4. Satisfactorily COMPLETE NUTR 203 and NUTR 210 with a “B” or above;
   a. Students who have completed additional nutrition DPD courses** must have a “B” or better in all of them.

To remain in the DPD program, students must meet the following criteria:

1. Maintain an overall GPR of 3.0 or above; and
2. Have a “C” or better in all non-nutrition DPD Courses* and a “B” or better in all nutrition DPD courses.**

NOTE: Students who (1) fall below 3.0 GPR and/or (2) do not meet the grade criteria for DPD courses will have one semester to (1) bring their overall GPR to 3.0 and/or (2) retake the course(s) and make an acceptable grade. If the GPR and/or grade criteria are not achieved within one semester, the student will be removed from the DPD program and moved to the General Nutrition Track.

Students who wish to be reconsidered for the DPD program must meet the following criteria:

1. Have an overall GPR of 3.0 or above; and
2. Have “C” or better in all non-nutrition DPD Courses* and a “B” or better in all nutrition DPD courses**

I understand that I am responsible for meeting all the above requirements to participate in the DPD program and will be placed back in the General Nutrition Track, if I do not meet the requirements listed above. I must achieve the designated criteria before being reconsidered to participate in the DPD program. If I am dismissed from the DPD program and/or do not meet the GPR or grade requirements, I understand that I will not receive a verification statement nor qualify for participation in an accredited dietetic internship.

I also understand that successful completion of the DPD program does not guarantee placement in an accredited dietetic internship program.
Didactic Program in Dietetics (DPD) Program Course Requirements

<table>
<thead>
<tr>
<th>DPD Science Courses</th>
<th>DPD Professional Courses</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Must Make a “C” or Better</strong></td>
<td><strong>Must Make a “B” or Better</strong></td>
</tr>
<tr>
<td>CHEM 101 FUND OF CHEMISTRY I must be complete before participation in the DPD program</td>
<td>NUTR 203 SCIENTIFIC PRIN NUTRITION must be complete before participation in the DPD program</td>
</tr>
<tr>
<td>CHEM 111 FUND OF CHEMISTRY I LAB must be complete before participation in the DPD program</td>
<td>NUTR 210 HORIZONS IN NUTRITION AND FOOD SCIENCE must be complete before participation in the DPD program</td>
</tr>
<tr>
<td>CHEM 102 FUND OF CHEMISTRY II must be complete before participation in the DPD program</td>
<td>NUTR 211 SCIENTIFIC PRIN OF FOODS</td>
</tr>
<tr>
<td>CHEM 112 FUND OF CHEMISTRY II LAB must be complete before participation in the DPD program</td>
<td>NUTR 301 NUTR THROUGH LIFE</td>
</tr>
<tr>
<td>CHEM 227 ORGANIC CHEMISTRY I</td>
<td>NUTR 304 FOOD SERVICE SYSTEM MGMT</td>
</tr>
<tr>
<td>CHEM 237 ORGANIC CHEMISTRY LAB</td>
<td>NUTR 404 NUTR ASSESSMENT &amp; PLAN</td>
</tr>
<tr>
<td>CHEM 228 ORGANIC CHEMISTRY II</td>
<td>NUTR 405 NUTRITION TRTMNT DISEASE</td>
</tr>
<tr>
<td>GENE 301/312 COMPREHENSIVE GENETICS</td>
<td>NUTR 430 COMMUNITY NUTRITION</td>
</tr>
<tr>
<td>BIOL 111 INTRODUCTORY BIOLOGY I</td>
<td>NUTR 470 NUTR &amp; PHYSIOLOG CHEM</td>
</tr>
<tr>
<td>BIOL 112 INTRODUCTORY BIOLOGY II</td>
<td>NUTR 481 SEMINAR</td>
</tr>
<tr>
<td>BIOL 319 INTEGRATED HUM AN/PHY I</td>
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<tr>
<td>BIOL 320 INTEGRATED HUM AN/PHY II</td>
<td></td>
</tr>
<tr>
<td>BICH 410 COMPREHEN BIOCHEM I</td>
<td></td>
</tr>
<tr>
<td>BICH 411 COMPREHEN BIOCHEM II</td>
<td></td>
</tr>
</tbody>
</table>

**Must Make a “C” or better in the following courses:**
- ANTH 205 PEOPLE AND CULT OF THE WORLD or
  ANTH 210 SOC AND CULT ANTH
- PSYC 107 INTRODUCTION TO PSYCHOLOGY
- FSTC/DASC 326 FOOD BACTERIOLOGY
- STAT 302 STATISTICAL METHODS
- MGMT 309 SURVEY OF MANAGEMENT

By choosing to change degree tracks to NUSC DPD, all prerequisites for DPD (NUTR 211, 304, and 404) will be enforced and that no waivers will be granted. NUTR 211 is the prerequisite for NUTR 304. NUTR 404 is offered in Fall term only. These are non-negotiable sequences and scheduling consequences may occur.
## Curriculum in Nutritional Sciences
### General Nutrition Track
Catalog No. 139 (2016-2017)

### FRESHMAN YEAR

<table>
<thead>
<tr>
<th>First Semester</th>
<th>Second Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 104</td>
<td>3 History Elective&lt;sup&gt;2&lt;/sup&gt;</td>
</tr>
<tr>
<td>MATH 141 or MATH 152</td>
<td>3 MATH 142 or Math 151</td>
</tr>
<tr>
<td>CHEM 101/111</td>
<td>4 CHEM 102/112</td>
</tr>
<tr>
<td>BIOL 111</td>
<td>4 BIOL 112</td>
</tr>
<tr>
<td>NUTR 210</td>
<td>2 Free Elective</td>
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<tr>
<td></td>
<td>16</td>
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</tbody>
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### SOPHOMORE YEAR

<table>
<thead>
<tr>
<th>First Semester</th>
<th>Second Semester</th>
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</thead>
<tbody>
<tr>
<td>NUTR 203&lt;sup&gt;6&lt;/sup&gt;</td>
<td>3 CHEM 228</td>
</tr>
<tr>
<td>CHEM 227/237</td>
<td>4 Free Elective</td>
</tr>
<tr>
<td>ENGL 210</td>
<td>3 POLS 206</td>
</tr>
<tr>
<td>Social and Behavioral elective&lt;sup&gt;2&lt;/sup&gt;</td>
<td>3 Creative Arts Elective&lt;sup&gt;2&lt;/sup&gt;</td>
</tr>
<tr>
<td>History Elective&lt;sup&gt;2&lt;/sup&gt;</td>
<td>3 Free Elective</td>
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<td>16</td>
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### JUNIOR YEAR

<table>
<thead>
<tr>
<th>First Semester</th>
<th>Second Semester</th>
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<tbody>
<tr>
<td>BIOL 319&lt;sup&gt;3&lt;/sup&gt;</td>
<td>4 BIOL 320&lt;sup&gt;3&lt;/sup&gt;</td>
</tr>
<tr>
<td>Technical Elective&lt;sup&gt;4&lt;/sup&gt;</td>
<td>3 GENE 301/312</td>
</tr>
<tr>
<td>POLS 207</td>
<td>3 Nutrition 430</td>
</tr>
<tr>
<td>NUTR 301</td>
<td>3 Technical Elective&lt;sup&gt;4&lt;/sup&gt;</td>
</tr>
<tr>
<td>Free Elective</td>
<td>1 STAT 302</td>
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### SENIOR YEAR

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<thead>
<tr>
<th>First Semester</th>
<th>Second Semester</th>
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</thead>
<tbody>
<tr>
<td>FSTC 326 or BIOL 351</td>
<td>3/4 BICH 411</td>
</tr>
<tr>
<td>BICH 410</td>
<td>3 NUTR 470</td>
</tr>
<tr>
<td>Nutrition Elective&lt;sup&gt;3&lt;/sup&gt;</td>
<td>3 NUTR 481 “C”</td>
</tr>
<tr>
<td>Technical Elective&lt;sup&gt;4&lt;/sup&gt;</td>
<td>3 Nutrition Elective&lt;sup&gt;3&lt;/sup&gt;</td>
</tr>
<tr>
<td>Free Elective</td>
<td>1 Lang., Phil. &amp; Culture Elective&lt;sup&gt;2&lt;/sup&gt;</td>
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<tr>
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<td>13/14</td>
</tr>
</tbody>
</table>

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A total of 120 hours is required for graduation; 36 hours of 300/400 level courses are required to meet the TAMU residency requirement.  
<sup>1</sup> Catalog should correspond with your first semester.  
<sup>2</sup> University Core Curriculum. Six hours of international and cultural diversity are required. Selection must be from courses on the approved list. Selection can be courses that also satisfy the requirement for social and behavioral sciences, visual and performing arts, humanities, or electives.  
<sup>3</sup> Students may choose to take two physiology courses instead of anatomy. Choose VTPP 423 and VIBS 305.  
<sup>4</sup> Technical electives – CHEM 238, PHYS 201, PHYS 202, CHEM 315 and 318, BIOL 413 or BIOL 414, BIOL 352 or BIOL 360, VTPP 425, COMM 203, 315, or 325, PSYC 306, PSYC 307, BICH 431, HLTH 354.  
<sup>5</sup> Students may choose from NUTR 211, NUTR 300, NUTR 405, NUTR 410, NUTR 430 (“W”), NUTR 440, NUTR 450, NUTR 469, NUTR 471, NUTR 485, NUTR 489, NUTR 491. One nutrition elective must be a “W” course.  
<sup>6</sup> Chem 101/111 is the prerequisite for NUTR 203; NUTR 203 may be taken in either semester.
CURRICULUM IN NUTRITIONAL SCIENCES
GENERAL NUTRITION TRACK
CATALOG NO. 139 (2016-2017)*

University Core Curriculum**

Citizenship
_______ Am. History Elective (3) *(TCCN: HIST 1301)
_______ Am. History Elective (3) *(TCCN: HIST 1302)
_______ POLS 206 (3) *(TCCN: GOVT 2305/2302)
_______ POLS 207 (3) *(TCCN: GOVT 2306/2301)

Communication
_______ ENGL 104 (3) *(TCCN: 1301)
_______ ENGL 210 (3) *(TCCN: 2311)

Natural Sciences
_______ CHEM 101/111 (4) *(TCCN: 1411)
_______ CHEM 102/112 (4) *(TCCN: 1412)

Language, Philosophy, and Culture
_______ Language, Philosophy, and Culture Elective (3)

Mathematics and Statistics
_______ MATH 141 (3) *(TCCN: 1324)
_______ MATH 142 (3) *(TCCN: 1325)
_______ STAT 302 (3) *(must be taken at TAMU/or AP Credit)

Social and Behavioral Sciences
_______ Social and Behavioral Science Elective (3)

Creative Arts
_______ Creative Arts Elective (3)

International & Cultural Diversity
_______ 3 hours (can be used to satisfy other
_______ 3 hours requirements)

Writing Intensive Credits *(must be NUTR/2 required)
(1) NUTR 481
(2) NUTR 430 or NUTR 469

Science Courses (Credit hours)

Anatomy/Physiology
_______ BIOL 319 (4) ***** *(Cannot substitute BIOL 2401)
_______ BIOL 320 (4) ***** *(Cannot substitute BIOL 2402)

Biochemistry
_______ BICH 410 (3)
_______ BICH 411 (3)

Biology and Genetics
_______ BIOL 111 (4) *(TCCN: 1406)
_______ BIOL 112 (4) *(TCCN: 1407)
_______ GENE 301/312 (4)

Chemistry
_______ CHEM 227 (3) *(TCCN: 2423)
_______ CHEM 237 (1) *(TCCN: 2423)
_______ CHEM 228 (3) *(TCCN: 2425)

Required Nutrition/Food Science Courses
_______ FSTC 326 (3) or BIOL 351 (4)
_______ NUTR 203 (3)
_______ NUTR 210 (2)
_______ NUTR 301 (3)
_______ NUTR 470 (3)
_______ NUTR 481 “C” (1)
_______ NUTR Elective (3)***
_______ NUTR Elective (3)***

Technical Electives (9 total)
_______ Approved Electives (3)****
_______ Approved Electives (3)****
_______ Approved Electives (3)****

Free Electives (9 total)
_______ Free Electives
_______ Free Electives
_______ Free Electives

A total of 120 hours is required for graduation; 36 hours of 300/400 level courses are required at TAMU.

* Catalog should correspond with your first semester.
** University Core Curriculum.
*** Students may choose from NUTR 211, NUTR 300, NUTR 405, NUTR 410, NUTR 430 (“W”), NUTR 440, NUTR 450, NUTR 469, NUTR 471, NUTR 485, NUTR 489, NUTR 491. One nutrition elective must be a “W” course.
**** Approved Electives—CHEM 238, PHYS 201, PHYS 202, CHEM 315 and 318, BIOL 413 or BIOL 414, BIOL 352 or BIOL 360, VTPP 425, COMM 203, 315, or 325, PSYC 306, PSYC 307, BICH 431, HLTH 354.
***** Student may choose to take biomedical anatomy and physiology. Choose VIBS 305 and VTPP 423
# Curriculum in Nutritional Sciences

## Molecular and Experimental Track

Catalog No. 139 (2016-2017)

## FRESHMAN YEAR

<table>
<thead>
<tr>
<th>First Semester</th>
<th>Second Semester</th>
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<tbody>
<tr>
<td>ENGL 103 or 104</td>
<td>3 History Elective²</td>
</tr>
<tr>
<td>MATH 141 or 152</td>
<td>3 MATH 142 or 151</td>
</tr>
<tr>
<td>CHEM 101/111</td>
<td>4 CHEM 102/112</td>
</tr>
<tr>
<td>BIOL 111</td>
<td>4 BIOL 112</td>
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<tr>
<td>NUTR 210</td>
<td>2 Free Elective</td>
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<tr>
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<tbody>
<tr>
<td>NUTR 203⁶</td>
<td>3 CHEM 228/238</td>
</tr>
<tr>
<td>CHEM 227/237</td>
<td>4 Social and Behavioral Elective</td>
</tr>
<tr>
<td>ENGL 210</td>
<td>3 POLS 206</td>
</tr>
<tr>
<td>PHYS 201</td>
<td>4 Creative Arts Elective²</td>
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<tr>
<td>History Elective²</td>
<td>3 Technical Elective⁹</td>
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## JUNIOR YEAR

<table>
<thead>
<tr>
<th>First Semester</th>
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<tbody>
<tr>
<td>BIOL 319³</td>
<td>4 BIOL 320³</td>
</tr>
<tr>
<td>NUTR 301</td>
<td>3 GENE 301/312</td>
</tr>
<tr>
<td>POLS 207</td>
<td>3 STAT 302</td>
</tr>
<tr>
<td>Lang., Phil. &amp; Culture Elective²</td>
<td>3 CHEM 316</td>
</tr>
<tr>
<td>Free Elective</td>
<td>1 CHEM 318</td>
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<td>14</td>
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## SENIOR YEAR

<table>
<thead>
<tr>
<th>First Semester</th>
<th>Second Semester</th>
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<tbody>
<tr>
<td>NUTR/FSTC 440</td>
<td>3 BICH 411</td>
</tr>
<tr>
<td>BICH 410</td>
<td>3 NUTR 470</td>
</tr>
<tr>
<td>NUTR 469 “W”</td>
<td>4 NUTR 481 “W”</td>
</tr>
<tr>
<td>Nutrition Elective⁵</td>
<td>3 Nutrition Elective⁵</td>
</tr>
<tr>
<td>Free Elective</td>
<td>2 BICH 431</td>
</tr>
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</tbody>
</table>

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

1. Catalog should correspond with your first semester.
2. University Core Curriculum. Six hours of international and cultural diversity are required. Selection must be from courses on the approved list. Selection can be courses that also satisfy the requirement for social and behavioral sciences, visual and performing arts, humanities, or electives.
3. Students may choose to take two physiology courses instead of anatomy. Choose VTPP 423 and VIBS 305 instead of BIOL 319, 320.
5. Students may choose from NUTR 405, NUTR 410, NUTR 471, NUTR 485, NUTR 489, NUTR 491.
6. CHEM 101/111 is the prerequisite for NUTR 203; NUTR 203 may be taken in either semester.
7. KINE 199 must be taken Pass/Fail and KINE 198 must be taken for a grade.
## University Core Curriculum**

<table>
<thead>
<tr>
<th>Citizenship</th>
<th>Science Courses (Credit hours)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Am. History Elective (3)</td>
<td>Anatomy/Physiology</td>
</tr>
<tr>
<td>Am. History Elective (3)</td>
<td>BIOL 319 (4)**** (Cannot substitute BIOL 2401)</td>
</tr>
<tr>
<td>POLS 206 (3) (<strong>TCCN: GOVT 2305/2302</strong>)</td>
<td>BIOL 320 (4)**** (Cannot substitute BIOL 2402)</td>
</tr>
<tr>
<td>POLS 207 (3) (<strong>TCCN: GOVT 2306/2301</strong>)</td>
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### Communication

| ENGL 104 (3) (**TCCN: 2311**) | ENGL 210 (3) (**TCCN: 2311**) |

### Natural Sciences

| CHEM 101/111 (4) (**TCCN: 1411**) | CHEM 102/112 (4) (**TCCN: 1412**) |

### Language, Philosophy, and Culture

| Language, Philosophy, and Culture Elective (3) | Language, Philosophy, and Culture Elective (3) |

### Mathematics and Statistics

| MATH 141 (3) (**TCCN: 1324**) | MATH 142 (3) (**TCCN: 1325**) |

### Social and Behavioral Sciences

| Social and Behavioral Science Elective (3) | Social and Behavioral Science Elective (3) |

### Creative Arts

| Creative Arts Elective (3) | Creative Arts Elective (3) |

### International & Cultural Diversity

| 3 hours (can be used to satisfy other requirements) | 3 hours |

### Writing Intensive Credits (must be NUTR/must complete 2)

(1) NUTR 481  
(2) NUTR 469

---

A total of 120 hours is required for graduation; 36 hours of 300/400 level courses are required at TAMU.

* Catalog should correspond with your first semester.

** University Core Curriculum.

*** Students may choose from NUTR 405, NUTR 410, NUTR 471, NUTR 485, NUTR 489, NUTR 491.

**** Approved Electives – PHYS 202, BIOL 413 or BIOL 414, VTPP 425, COMM 203, COMM 315, or COMM 325, PSYC 306, PSYC 307, HLTH 334, HLTH 354.

***** Student may choose to take biomedical anatomy and physiology. Choose VIBS 305 and VTPP 423
### FRESHMAN YEAR

<table>
<thead>
<tr>
<th>First Semester</th>
<th>Second Semester</th>
</tr>
</thead>
</table>
| ENGL 104             | American History Elective<sup>2</sup>  | 3  
| MATH 141 or MATH 152 | MATH 142 or MATH 151 | 3  
| CHEM 101/111         | CHEM 102/112   | 4  
| BIOL 111             | BIOL 112       | 4  
| NUTR 210             | Free Elective  | 1  
|                      |                | 16  

<table>
<thead>
<tr>
<th>First Semester</th>
<th>Second Semester</th>
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</thead>
</table>
|                      |                | 15  

### SOPHOMORE YEAR

<table>
<thead>
<tr>
<th>First Semester</th>
<th>Second Semester</th>
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</thead>
</table>
| NUTR 203<sup>4</sup> | CHEM 228       | 3  
| CHEM 227/237         | NUTR 211       | 4  
| ENGL 210             | Free Elective  | 3  
| PSYC 107             | POLS 206       | 3  
| American History Elective<sup>2</sup> | Creative Arts Elective<sup>2</sup> | 3  
|                      |                | 16  

<table>
<thead>
<tr>
<th>First Semester</th>
<th>Second Semester</th>
</tr>
</thead>
</table>
|                      |                | 16  

### JUNIOR YEAR

<table>
<thead>
<tr>
<th>First Semester</th>
<th>Second Semester</th>
</tr>
</thead>
</table>
| BIOL 319<sup>3</sup> | BIOL 320<sup>3</sup> | 4  
| MGMT 309             | GENE 301/312   | 4  
| POLS 207             | NUTR 304       | 4  
| NUTR 301             | STAT 302       | 3  
| Free Elective        |                | 15  
|                      |                | 14  

### SENIOR YEAR

<table>
<thead>
<tr>
<th>First Semester</th>
<th>Second Semester</th>
</tr>
</thead>
</table>
| FSTC 326/ DASC 326   | BICH 411       | 3  
| BICH 410             | NUTR 470       | 3  
| NUTR 404             | NUTR 481 “W”   | 1  
| NUTR 430 “W”         | NUTR 405       | 4  
| Free Elective        | ANTH 205 or ANTH 210<sup>5</sup> | 3  
|                      |                | 14  

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

<sup>1</sup> Catalog should correspond with your first semester.

<sup>2</sup> University Core Curriculum. Six hours of international and cultural diversity are required. Selection must be from courses on the approved list. Selection can be courses that also satisfy the requirement for social and behavioral sciences, visual and performing arts, humanities, or electives.

<sup>3</sup> Students may choose to take two physiology courses instead of anatomy. Choose VTPP 423 and VIBS 305.

<sup>4</sup> CHEM 101/111 is the prerequisite for NUTR 203; NUTR 203 may be taken in either semester.

<sup>5</sup> Take either 205 or 210; note, 210 does not satisfy Language, Philosophy, & Culture requirements but does satisfy International and Cultural Diversity requirements.
### University Core Curriculum**

**Citizenship**
- Am. History Elective (3) *(TCCN: HIST 1301)*
- Am. History Elective (3) *(TCCN: HIST 1302)*
- POLS 206 (3) *(TCCN: GOVT 2305/2302)*
- POLS 207 (3) *(TCCN: GOVT 2306/2301)*

**Communication**
- ENGL 104 (3) *(TCCN: 1301)*
- ENGL 210 (3) *(TCCN: 2311)*

**Natural Sciences**
- CHEM 101/111 (4) *(TCCN: 1411)*
- CHEM 102/112 (4) *(TCCN: 1412)*

**Language, Philosophy, and Culture**
- ANTH 205 or ANTH 210 (3)****

**Mathematics and Statistics**
- MATH 141 (3) *(TCCN: 1324)*
- MATH 142 (3) *(TCCN: 1325)*
- STAT 302 (3) *(must be taken at TAMU)*

**Behavioral and Social Sciences**
- PSYC 107 (3) *(TCCN: 2301)*

**Creative Arts**
- Creative Arts Elective (3)

**International & Cultural Diversity**
- 3 hours (can be used to satisfy other 3 hours requirements)

**Writing Intensive Credits (must be NUTR/2 required)**

1. NUTR 481
2. NUTR 430

---

### Science Courses (Credit hours)

**Anatomy/Physiology**
- BIOL 319 (4)*** *(Cannot substitute BIOL 2401)*
- BIOL 320 (4)*** *(Cannot substitute BIOL 2402)*

**Biochemistry**
- BICH 410 (3)
- BICH 411 (3)

**Biology and Genetics**
- BIOL 111 (4) *(TCCN: 1406)*
- BIOL 112 (4) *(TCCN: 1407)*
- GENE 301/312 (4)

**Chemistry**
- CHEM 227 (3) *(TCCN: 2423)*
- CHEM 237 (1) *(TCCN: 2423)*
- CHEM 228 (3) *(TCCN: 2425)*

**Required Nutrition/Food Science Courses**
- FSTC 326 (3)
- NUTR 203 (3)
- NUTR 210 (2)
- NUTR 301 (3)
- NUTR 470 (3)
- NUTR 481 "C" (1)

**Technical Electives (ADA Approved)**
- MGMT 309 (3)
- NUTR 211 (4)
- NUTR 304 (4)
- NUTR 404 (3)****
- NUTR 405 (4)
- NUTR 430 "W" (3)

**Free Electives (6 total)**
- Free Electives
- Free Electives

---

A total of 120 hours is required for graduation; 36 hours of 300/400 level courses are required at TAMU.

* Catalog should correspond with your first semester.
** University Core Curriculum.
*** Student may choose to take biomedical anatomy and physiology. Choose VIBS 305 and VTPP 423
**** NUTR 404 is offered on a Fall semester basis only (at this time)
***** Take either ANTH 205 or ANTH 210; 210 does satisfy International, Cultural Diversity requirements but does not satisfy Language, Philosophy and Culture requirements
Curriculum in Nutritional Sciences  
Chemistry Teacher Certification Track (7-12)  
Catalog No. 139 (2016-2017)

## FRESHMAN YEAR

<table>
<thead>
<tr>
<th>First Semester</th>
<th>Second Semester</th>
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<tbody>
<tr>
<td>ENGL 104</td>
<td>3 American History Elective²</td>
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<tr>
<td>MATH 141 or MATH 152</td>
<td>3 MATH 142 or MATH 151</td>
</tr>
<tr>
<td>CHEM 101/111</td>
<td>4 CHEM 102/112</td>
</tr>
<tr>
<td>BIOL 111</td>
<td>4 BIOL 112</td>
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<tr>
<td>NUTR 210</td>
<td>2 STEM Minor/Elective*</td>
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## SOPHOMORE YEAR

<table>
<thead>
<tr>
<th>First Semester</th>
<th>Second Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>NUTR 203</td>
<td>3 CHEM 228</td>
</tr>
<tr>
<td>CHEM 227/237</td>
<td>4 STEM Minor Elective*</td>
</tr>
<tr>
<td>ENGL 210</td>
<td>3 POLS 206</td>
</tr>
<tr>
<td>Social and Behavioral Elective²</td>
<td>3 Creative Arts Elective²</td>
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<tr>
<td>American History Elective²</td>
<td>3 STEM Minor Elective*</td>
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## JUNIOR YEAR

<table>
<thead>
<tr>
<th>First Semester</th>
<th>Second Semester</th>
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<tbody>
<tr>
<td>BIOL 319³</td>
<td>4 BIOL 320³</td>
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<tr>
<td>POLS 207</td>
<td>3 GENE 301/312</td>
</tr>
<tr>
<td>NUTR 301</td>
<td>3 Nutrition Elective⁴</td>
</tr>
<tr>
<td>STEM Minor Elective*</td>
<td>3 STEM Minor Elective*</td>
</tr>
<tr>
<td>Free Elective</td>
<td>1 STAT 302</td>
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## SENIOR YEAR

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<thead>
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<th>First Semester</th>
<th>Second Semester</th>
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<tbody>
<tr>
<td>FSTC 326 or BIOL 351</td>
<td>3/4 BICH 411</td>
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<td>BICH 410</td>
<td>3 NUTR 470</td>
</tr>
<tr>
<td>Nutrition 430 “W”</td>
<td>3 NUTR 481 “C”</td>
</tr>
<tr>
<td>STEM Minor Elective*</td>
<td>3 Nutrition Elective⁵</td>
</tr>
<tr>
<td>Free Elective</td>
<td>1 Lang., Phil, &amp; Culture Elective²</td>
</tr>
<tr>
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<td>13/14</td>
</tr>
</tbody>
</table>

---

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

---

¹ Catalog should correspond with your first semester.

² University Core Curriculum. Six hours of international and cultural diversity are required. Selection must be from courses on the approved list. Selection can be courses that also satisfy the requirement for social and behavioral sciences, visual and performing arts, humanities, or electives.

³ Students may choose to take two physiology courses instead of anatomy. Choose VTPP 423 and VIBS 305.

⁴ Students may choose from NUTR 211, 300, 405, 410, 440, 450, 469, 485, 489, 491; SOCI 330

⁵ Required courses for STEM minor: TEFB 273 or INST 322, TEED 302 or INST 310, RDNG 465, TEFB 322, TEFB 324, TEFB 406.
# CURRICULUM IN NUTRITIONAL SCIENCES
## CHEMISTRY TEACHER CERTIFICATION TRACK (7-12)
### CATALOG NO. 139 (2016-2017)*

**University Core Curriculum**

<table>
<thead>
<tr>
<th>Citizenship</th>
<th>Science Courses (Credit hours)</th>
</tr>
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<tbody>
<tr>
<td>_______ Am. History Elective (3)</td>
<td>_______ BIOL 319 (4)****</td>
</tr>
<tr>
<td>(TCCN: HIST 1301)</td>
<td>(Cannot substitute BIOL 2401)</td>
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<tr>
<td>_______ Am. History Elective (3)</td>
<td>_______ BIOL 320 (4)****</td>
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<td>(TCCN: HIST 1302)</td>
<td>(Cannot substitute BIOL 2402)</td>
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<td>(TCCN: GOVT 2305/2302)</td>
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<tr>
<td>_______ POLS 207 (3)</td>
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<td>(TCCN: GOVT 2306/2301)</td>
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<table>
<thead>
<tr>
<th>Communication</th>
<th>Biochemistry</th>
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</thead>
<tbody>
<tr>
<td>_______ ENGL 104 (3) (TCCN: 1301)</td>
<td>_______ BICH 410 (3)</td>
</tr>
<tr>
<td>_______ ENGL 210 (3) (TCCN: 2311)</td>
<td>_______ BICH 411 (3)</td>
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<table>
<thead>
<tr>
<th>Natural Sciences</th>
<th>Biology and Genetics</th>
</tr>
</thead>
<tbody>
<tr>
<td>_______ CHEM 101/111 (4) (TCCN: 1411)</td>
<td>_______ BIOL 111 (4) (TCCN: 1406)</td>
</tr>
<tr>
<td>_______ CHEM 102/112 (4) (TCCN: 1412)</td>
<td>_______ BIOL 112 (4) (TCCN: 1407)</td>
</tr>
<tr>
<td>_______ GENE 301/312 (4)</td>
<td>_______ GENE 301/312 (4)</td>
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<table>
<thead>
<tr>
<th>Language, Philosophy, and Culture</th>
<th>Chemistry</th>
</tr>
</thead>
<tbody>
<tr>
<td>_______ Language, Philosophy and Culture Elective (3)</td>
<td>_______ CHEM 227 (3) (TCCN: 2423)</td>
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<table>
<thead>
<tr>
<th>Mathematics and Statistics</th>
<th>Required Nutrition/Food Science Courses</th>
</tr>
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<tbody>
<tr>
<td>_______ MATH 141 (3) (TCCN: 1324)</td>
<td>_______ FSTC 326 (3) or BIOL 351 (4)</td>
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<td>_______ MATH 142 (3) (TCCN: 1325)</td>
<td>_______ NUTR 203 (3)</td>
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<tr>
<td>_______ STAT 302 (3) (must be taken at TAMU or AP Credit)</td>
<td>_______ NUTR 210 (2)</td>
</tr>
<tr>
<td></td>
<td>_______ NUTR 301 (3)</td>
</tr>
<tr>
<td></td>
<td>_______ NUTR 430 “W” (3)</td>
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<tr>
<td></td>
<td>_______ NUTR 470 (3)</td>
</tr>
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<td></td>
<td>_______ NUTR 481 “C” (1)</td>
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<tr>
<td></td>
<td>_______ NUTR Elective (3)***</td>
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<th>Electives (18 hrs total)</th>
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<td>_______ Electives ****</td>
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<th>Creative Arts</th>
<th>STEM Minor</th>
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<tbody>
<tr>
<td>_______ Creative Arts Elective (3)</td>
<td>_______ TEED 302 or INST 310 (3)</td>
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<tr>
<td></td>
<td>_______ TEFB 322 (3)</td>
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<td>_______ TEFB 324 (3)</td>
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<td>_______ RDNG 465 (3)</td>
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<td>_______ TEFB 406 (3)</td>
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<td>_______ TEFB 273 or INST 322 (3)</td>
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<tr>
<th>International &amp; Cultural Diversity</th>
<th>Writing Intensive Credits (must be NUTR/2 required)</th>
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</thead>
<tbody>
<tr>
<td>_______ 3 hours (can be used to satisfy other requirements)</td>
<td>(3) NUTR 481</td>
</tr>
<tr>
<td>_______ 3 hours</td>
<td>(4) NUTR 430 or NUTR 469</td>
</tr>
</tbody>
</table>

A total of 120 hours is required for graduation; 36 hours of 300/400 level courses are required at TAMU.

* Catalog should correspond with your first semester.

** University Core Curriculum.

*** Students may choose from NUTR 211, 300, 405, 410, 440, 450, 469, 485, 489, 491; SOCI 330

**** Required STEM Minor courses count as electives.

***** Student may choose to take biomedical anatomy and physiology. Choose VIBS 305 and VTPP 423
Curriculum in Nutritional Sciences
Biology/Life Sciences Certification Track (7-12)
Catalog No. 139 (2016-2017)

**FRESHMAN YEAR**

<table>
<thead>
<tr>
<th>First Semester</th>
<th>Second Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 104</td>
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<tr>
<td>MATH 141 or MATH 152</td>
<td>3 MATH 142 or MATH 151</td>
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<td>CHEM 101/111</td>
<td>4 CHEM 102/112</td>
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<tr>
<td>BIOL 111</td>
<td>4 BIOL 112</td>
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<tr>
<td>NUTR 210</td>
<td>2 STEM Minor Elective*</td>
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<td></td>
<td>16</td>
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**SOPHOMORE YEAR**

<table>
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<th>Second Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>NUTR 203</td>
<td>3 CHEM 228</td>
</tr>
<tr>
<td>CHEM 227/237</td>
<td>4 STEM Minor Elective*</td>
</tr>
<tr>
<td>ENGL 210</td>
<td>3 POLS 206</td>
</tr>
<tr>
<td>Social and Behavioral Elective²</td>
<td>3 Creative Arts Elective²</td>
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<tr>
<td>American History Elective²</td>
<td>3 STEM Minor Elective*</td>
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**JUNIOR YEAR**

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<tr>
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<tbody>
<tr>
<td>BIOL 319</td>
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<td>POLS 207</td>
<td>3 GENE 301/312</td>
</tr>
<tr>
<td>NUTR 301</td>
<td>3 Nutrition Elective³</td>
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<tr>
<td>Free Elective</td>
<td>1 WFSC 402 or BIOL 357</td>
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<tr>
<td>BIOL 302 or HORT 301</td>
<td>3 STAT 302</td>
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<td></td>
<td>14</td>
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**SENIOR YEAR**

<table>
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<tr>
<th>First Semester</th>
<th>Second Semester</th>
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<tbody>
<tr>
<td>FSTC 326 or BIOL 351</td>
<td>3/4 BICH 411</td>
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<td>3 NUTR 470</td>
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<tr>
<td>NUTR 430 “W”</td>
<td>3 NUTR 481 “C”</td>
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<tr>
<td>STEM Minor Elective*</td>
<td>3 Nutrition Elective⁵</td>
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<tr>
<td>Free Elective</td>
<td>1 Lang., Phil. &amp; Culture Elective²</td>
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¹ Catalog should correspond with your first semester.

² University Core Curriculum. Six hours of international and cultural diversity are required. Selection must be from courses on the approved list. Selection can be courses that also satisfy the requirement for social and behavioral sciences, visual and performing arts, humanities, or electives.

³ Students may choose to take two physiology courses instead of anatomy. Choose VTPP 423 and VIBS 305.

⁴ Technical electives – CHEM 238 or 315 and 318, PHYS 201, PHYS 202, BIOL 413 or 414, MICR 352 or 360, VTPP 425, COMM 203, 315, or 325, PSYC 306 or 307, BICH 431, HHLT 236, 334, 354

⁵ Students may choose from NUTR 211, 300, 405, 410, 440, 450, 469, 485, 489, 491; SOCI 330

⁶ Required courses for STEM minor: TEFB 273 or INST 322, TEED 302 or INST 310, RDNG 465, TEFB 322, TEFB 324, TEFB 406.
### University Core Curriculum**

**Citizenship**
- Am. History Elective (3) (TCCN: HIST 1301)
- Am. History Elective (3) (TCCN: HIST 1302)
- POLS 206 (3) (TCCN: GOVT 2305/2302)
- POLS 207 (3) (TCCN: GOVT 2306/2301)

**Communication**
- ENGL 104 (3) (TCCN: 1301)
- ENGL 210 (3) (TCCN: 2311)

**Natural Sciences**
- CHEM 101/111 (4) (TCCN: 1411)
- CHEM 102/112 (4) (TCCN: 1412)

**Language, Philosophy, and Culture**
- Language, Philosophy, and Culture Elective (3)

**Mathematics and Statistics**
- MATH 141 (3) (TCCN: 1324)
- MATH 142 (3) (TCCN: 1325)
- STAT 302 (3) (must be taken at TAMU or AP Credit)

**Social and Behavioral Sciences**
- Social and Behavioral Science Elective (3)

**Creative Arts**
- Creative Arts Elective (3)

**International & Cultural Diversity**
- 3 hours (can be used to satisfy other requirements)
- 3 hours

**Writing Intensive Credits (must be NUTR/2 required)**
- NUTR 481
- NUTR 430 or NUTR 469

### Anatomy/Physiology
- BIOL 319 (4)**** (Cannot substitute BIOL 2401)
- BIOL 320 (4)**** (Cannot substitute BIOL 2402)

### Biochemistry
- BICH 410 (3)
- BICH 411 (3)

### Biology and Genetics
- BIOL 111 (4) (TCCN: 1406)
- BIOL 112 (4) (TCCN: 1407)
- GENE 301/312 (4)

### Chemistry
- CHEM 227 (3) (TCCN: 2423)
- CHEM 237 (1) (TCCN: 2423)
- CHEM 228 (3) (TCCN: 2425)

### Required Nutrition/Food Science Courses
- FSTC 326 (3) or BIOL 351 (4)
- NUTR 203 (3)
- NUTR 210 (2)
- NUTR 301 (3)
- NUTR 430 (3)
- NUTR 470 (3)
- NUTR 481 ‘C’ (1)
- NUTR Elective (3)***
- NUTR Elective (3)***

### Life Science Field Courses (6 hrs) / Electives (12 hrs)
- BIOL 302 or 308 (3)
- WFSC 402 or BIOL 357 (3)
- Electives***

### STEM Minor
- TEFB 273 or INST 322 (3)
- TEED 302 or INST 310 (3)
- RDNG 465 (3)
- TEFB 322 (3)
- TEFB 324 (3)
- TEFB 406 (3)

### Science Courses (Credit hours)
A total of 120 hours is required for graduation; 36 hours of 300/400 level courses are required at TAMU.

* Catalog should correspond with your first semester.

** University Core Curriculum.

*** Students may choose from NUTR 211, 300, 405, 410, 440, 450, 469, 485, 489, 491; SOCI 330

***** Required STEM Minor courses count as electives.

****** Student may choose to take biomedical anatomy and physiology. Choose VIBS 305 and VTPP 423
Curriculum in Nutritional Sciences
Science Teacher Certification Track (7-12)
Catalog No. 139 (2016-2017)

<table>
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<th><strong>First Semester</strong></th>
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<tr>
<td><strong>FRESHMAN YEAR</strong></td>
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<tr>
<td>ENGL 104</td>
<td>3</td>
<td>American History Elective&lt;sup&gt;2&lt;/sup&gt;</td>
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<tr>
<td>MATH 141 or MATH 152</td>
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<td>MATH 142 or MATH 151</td>
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<tr>
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<td>CHEM 102/112</td>
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<td>BIOL 111</td>
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<tr>
<td><strong>SOPHOMORE YEAR</strong></td>
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<tr>
<td>NUTR 203</td>
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<td>CHEM 228</td>
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<td>CHEM 227/237</td>
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<td>ATMO 201/202 or ASTR 101/102</td>
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<tr>
<td>ENGL 210</td>
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<td>POLS 206</td>
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<tr>
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<td>3</td>
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<tr>
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<tr>
<td><strong>JUNIOR YEAR</strong></td>
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<tr>
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<td>BIOL 320&lt;sup&gt;3&lt;/sup&gt;</td>
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<tr>
<td>POLS 207</td>
<td>3</td>
<td>GENE 301/312</td>
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<tr>
<td>Nutrition Elective</td>
<td>3</td>
<td>NUTR 430 “W”</td>
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<tr>
<td>NUTR 301</td>
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<td>PHYS 201</td>
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<tr>
<td><strong>SENIOR YEAR</strong></td>
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<tr>
<td>FSTC 326 or BIOL 351</td>
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<td>BICH 411</td>
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<td>BICH 410</td>
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<td>NUTR 470</td>
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<td>Nutrition Elective&lt;sup&gt;5&lt;/sup&gt;</td>
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<td>NUTR 481 “C”</td>
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<td>Lang., Phil. &amp; Culture Elective&lt;sup&gt;2&lt;/sup&gt;</td>
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<td>PHYS 202</td>
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<td>BIOL 357/358</td>
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A total of 120 hours is required for graduation; 36 hours of 300/400 level courses are required to meet the TAMU residency requirement.

<sup>1</sup> Catalog should correspond with your first semester.
<sup>2</sup> University Core Curriculum. Six hours of international and cultural diversity are required. Selection must be from courses on the approved list. Selection can be courses that also satisfy the requirement for social and behavioral sciences, visual and performing arts, humanities, or electives.
<sup>3</sup> Students may choose to take two physiology courses instead of anatomy. Choose VTPP 423 and VIBS 305.
<sup>5</sup> Students may choose from NUTR 211, 300, 405, 410, 440, 450, 469, 485, 489, 491; SOCI 330.
<sup>8</sup> Required courses for STEM minor: TEFB 273 or INST 322, TEED 302 or INST 310, RDNG 465, TEFB 322, TEFB 324, TEFB 406.
**University Core Curriculum**

**Citizenship**
- Am. History Elective (3) *(TCCN: HIST 1301)*
- Am. History Elective (3) *(TCCN: HIST 1302)*
- POLS 206 (3) *(TCCN: GOVT 2305/2302)*
- POLS 207 (3) *(TCCN: GOVT 2306/2301)*

**Communication**
- ENGL 104 (3) *(TCCN: 1301)*
- ENGL 210 (3) *(TCCN: 2311)*

**Natural Sciences**
- CHEM 101/111 (4) *(TCCN: 1411)*
- CHEM 102/112 (4) *(TCCN: 1412)*

**Language, Philosophy, and Culture**
- Language, Philosophy & Culture Elective (3)

**Mathematics and Statistics**
- MATH 141 (3) *(TCCN: 1324)*
- MATH 142 (3) *(TCCN: 1325)*
- STAT 302 (3) *(must be taken at TAMU)*

**Social and Behavioral Sciences**
- Social and Behavioral Science Elective (3)

**Creative Arts**
- Creative Arts Elective (3)

**International & Cultural Diversity**
- 3 hours (can be used to satisfy other requirements)

**Writing Intensive Credits** *(must be NUTR/2 required)*

1. NUTR 481
2. NUTR 430 or NUTR 469

**Electives (2 hrs total)**
- Electives

**Science Courses (Credit hours)**

A total of 120 hours is required for graduation; 36 hours of 300/400 level courses are required at TAMU.

* Catalog should correspond with your first semester.
** University Core Curriculum.
*** Students may choose from NUTR 211, 300, 405, 410, 440, 450, 469, 485, 489, 491; SOCI 330
****** Student may choose to take biomedical anatomy and physiology. Choose VIBS 305 and VTPP 423

---

**Anatomy/Physiology**
- BIOL 319 (4) *(Cannot substitute BIOL 2401)*
- BIOL 320 (4) *(Cannot substitute BIOL 2402)*

**Biochemistry**
- BICH 410 (3)
- BICH 411 (3)

**Biology and Genetics**
- BIOL 111 (4) *(TCCN: 1406)*
- BIOL 112 (4) *(TCCN: 1407)*
- GENE 301/312 (4)

**Chemistry**
- CHEM 227 (3) *(TCCN: 2423)*
- CHEM 237 (1) *(TCCN: 2423)*
- CHEM 228 (3) *(TCCN: 2425)*

**Required Nutrition/Food Science Courses**
- FSTC 326 (3) or BIOL 351 (4)
- NUTR 203 (3)
- NUTR 210 (2)
- NUTR 301 (3)
- NUTR 430 (3)
- NUTR 470 (3)
- NUTR 481 “C” (1)
- NUTR Elective (3)***
- NUTR Elective (3)***

**Sciences Field Courses**
- PHYS 201 (4)
- PHYS 202 (4)
- GEOL 101 (4)
- BIOL 357/358 (4)

**STEM Minor**
- TEBF 273 or INST 322 (3)
- TEED 302 or INST 310 (3)
- RDNG 465 (3)
- TEBF 322 (3)
- TEBF 324 (3)
- TEBF 406 (3)
NUTRITION COURSE DESCRIPTIONS

NUTR 202  Fundamentals of Human Nutrition  (Credit 3)  NOT A NUTR ELECTIVE
Principles of nutrition with application to the physiologic needs of individuals; food
sources and selection of an adequate diet; formulation of Recommended Dietary
Allowances; nutritional surveillance.

NUTR 203  Scientific Principles in Human Nutrition  (Credit 3)  Restricted to Nutritional Sciences
majors only.  Chemistry and physiology of proteins, carbohydrates, lipids, vitamins and
minerals; their ingestion, digestion, absorption, transport and metabolism.
Prerequisites: Completion of CHEM 101/111 or instructor approval.

NUTR 210  Horizons in Nutrition and Food Science  (Credit 2)
Introduction to nutrition and food science career opportunities through presentations by
nutrition and food science researchers and industry professionals; addresses issues of
professionalism including portfolio development, teamwork, and critical thinking skills.
Cross-listed with FSTC 210.

NUTR 211  Scientific Principles of Foods  (Credit 4)
Basic principles underlying selection, preparation and preservation of food in relation to
quality standards, acceptability and aesthetics.  Introduction to composition, nutritive
value, chemical and physical properties of foods; introduction to experimental study of
foods.
Prerequisites: CHEM 101, CHEM 111; NUTR 202 or NUTR 203; sophomore
classification or above.

NUTR 222  Nutrition for Health and Health Care  (Credit 3)  NOT A NUTR ELECTIVE
Analysis of nutrition with emphasis on providing a basic understanding of nutrition and its
role in disease prevention and treatment.

NUTR 285  Directed Studies  (Credit 1 to 4)
Directed study of selected problems in the area of nutrition.
Prerequisites: Approval of instructor; 2.0 GPR in major and overall.

NUTR 289  Special Topics In…  (Credit 1 to 4)
Selected topics in an identified area of nutrition.  May or may not be repeated for credit.
Prerequisites: Approval of instructor.

NUTR 300  Religious and Ethnic Foods  (Credit 3)
Understanding religious and ethnic foods with application to product development,
production, and nutritional practices; emphasis on different food rules and priorities with
attention given to different religious and ethnic groups within the US and around the
world.
Prerequisites: Junior or senior classification or approval of instructor; basic knowledge of
food science and nutrition helpful. Cross-listed with FSTC 300.

NUTR 301  Nutrition Through Life  (Credit 3)
Analysis of nutrition with emphasis on human biological needs through stages of the life
cycle.  The biochemical, physiological, and anthropometric aspects of nutrition.
Prerequisites: NUTR 203; junior classification or approval of department head
NUTR 303  Principles of Animal Nutrition. (3 Credits) —NOT A NUTR ELECTIVE
Scientific approach to nutritional roles of water, carbohydrates, proteins, lipids, minerals, vitamins, and other dietary components; emphasis on the comparative aspects of gastrointestinal tracts and on digestion, absorption, and metabolism of nutrients.
Prerequisites: CHEM 222; CHEM 227 or equivalent. Cross-listed with ANSC 303.

NUTR 304  Food Service Systems and Management (Credit 4)
Dietetics Students Only
Principles of food service management used in selecting, storing, preparing and serving food in quantity; emphasis on menu planning, quality control, purchasing, equipment and layout/design; application of basic management principles in food service operations, including financial planning and personnel issues.
Prerequisites: NUTR 203 and NUTR 211, junior or senior classification.

NUTR 404  Nutrition Assessment and Planning (Credit 4)
Dietetics Students Only
Methods of determining the nutritional status of individuals; dietary assessment techniques; planning nutritional care including diet modifications and nutrition support; nutrition counseling; documentation on nutritional care.
Prerequisites: NUTR 203; NUTR 301; junior classification or approval of department head.

NUTR 405  Nutritional Treatment of Disease (Credit 3)
Nutritional intervention in pathological conditions, based on biochemical, physiological and psychological effects of disease state; application of diet therapy principles and nutritional assessment.
Prerequisites: NUTR 301; BIOL 319 or BICH 410 or concurrent registration therein, or instructor approval.

NUTR 410  Nutritional Pharmacometrics of Food Compounds. (3 Credits)
Nutritional pharmacokinetics and pharmacodynamics of food compounds; specific examples of toxicological and pharmacological effects of food compounds.
Prerequisites: NUTR 202 or NUTR 203 or FSTC 201 or CHEM 222 or CHEM 227 or approval of instructor; junior or senior classification. Cross-listed with FSTC 410.

NUTR 430  Community Nutrition  (Credit 3) Writing-Intensive Course
Health and nutrition programs, food labeling, cultural and religious food practices, consumer education.
Prerequisites: Completion of NUTR 203 and 301 or instructor approval.

NUTR 440  Therapeutic Microbiology: Probiotics and Related Strategies- (Credit 3)
Topics relevant to alimentary (gastrointestinal) microbiology including: (i) the “normal” intestinal microbiota; (ii) probiotic and prebiotic nutritional supplements; (iii) recombinant pharmabiotics; (iv) gut-associated lymphoid tissue and mucosal immunity; (v) foodborne gastrointestinal pathogens; and (vi) fermented products as functional foods.
Prerequisites: Undergraduate survey course in microbiology or approval of instructor; junior or senior classification. Cross-listed with FSTC 440.
NUTR 450  Nutrition and Metabolism of Minerals (Credit 3)
The role of minerals in living systems and the exploration of their multitude of functions; chemical properties of minerals and how that relates to function in cells and tissues; consequences of mineral deficiencies based on known functions; insight into experimental approaches used to assess minerals in a living environment.
Prerequisites: NUTR 203, BICH 303 or 410 or approval of instructor.

NUTR 469  Experimental Nutrition & Food Science Laboratory (Credit 4) Writing Intensive
Investigation of nutritional intervention in animal models of metabolic and psychological disorders (e.g. obesity and depression); investigational approaches; behavioral analyses; RNA & protein analyses; reverse transcription PCR.
Prerequisites: CHEM 227/237; junior or senior classification or approval of instructor. Cross-listed with FSTC 469.

NUTR 470  Nutrition and Physiological Chemistry (Credit 3)
This course is designed to integrate nutrition, biochemistry and physiology. Students will learn how carbohydrates, lipids and proteins are used for energy.
Prerequisites: NUTR 203; NUTR 301; BICH 410; senior classification or approval of department head.

NUTR 471  Critical Evaluation of Nutrition and Food Science Literature  (Credit 3)
Evaluation of scientific literature, research methods within in the literature, and the quality of scientific studies to produce an evidence-based review in areas specific to nutrition and food science.
Prerequisites: NUTR 202 or 203 and STAT 302; Junior or Senior classification; knowledge of technical writing helpful. Cross-listed with FSTC 471.

NUTR 481  Seminar (Credit 1) Communication Intensive Course
Review of current literature and research in nutrition; oral presentations and critical discussions.
Prerequisites: Senior classification in nutritional sciences or allied area, or instructor approval.
NOTE: This course should be taken your last semester at TAMU.

NUTR 485  Directed Studies (Credit 1-4)
Directed study on selected problems in the area of nutrition.
Prerequisites: Junior or senior classification in nutritional sciences or allied area; approval of instructor; 2.0 GPR in major and overall. Student must make prior arrangement with a faculty member.

NUTR 489  Special Topics in ...  (Credit 1-4)
Selected topics in an identified area of nutrition. May be repeated for credit. Prerequisites vary depending on course
ANTH 205  Peoples and Cultures of the World (Credit 3)  
Survey of human cultures around the world using case studies of customs and cultural organization; case studies exemplifying contrasting types of cultures and societies. Will meet 3 hours International and Cultural Diversity Requirement.

ANTH 210  Social and Cultural Anthropology (Credit 3)  
Evolution of cultures; differences, similarities and effects of material and non-material culture on economic, social and political organization. Will meet 3 hours International and Cultural Diversity Requirement.

BICH 410  Comprehensive Biochemistry I (Credit 3)  
Structure, function and chemistry of proteins and carbohydrates; kinetics, mechanisms and regulation of enzymes; metabolism of carbohydrates. 
Prerequisite: CHEM 228 or approval of instructor.

BICH 411  Comprehensive Biochemistry II (Credit 3)  
Structure, function, chemistry and metabolism of lipids and nucleic acids; cellular metabolism viewed from the standpoint of energetics and control mechanisms; interrelationships of metabolic pathways.  
Prerequisite: BICH 410.

BICH 431  Molecular Genetics (Credit 3)  
Molecular basis for inheritance: gene structure and function, chromosomal organization, Replication and repair of DNA, transcription and translation, the genetic code, regulation of gene of expression differentiation and genetic manipulations.  
Prerequisites: BICH 410 or MEPS 313 or MICR 351; GEN 301 or 320. Cross-listed with GENE 431.

BIOL 111  Introductory Biology (Credit 4)  
First half of an introductory two-semester survey of contemporary biology that covers the chemical basis of life, structure and biology of the cell, molecular biology and genetics.

BIOL 112  Introductory Biology (Credit 4)  
The second half of an introductory two-semester survey of contemporary biology that covers evolution, history of life, diversity and form and function of organisms.  
Prerequisite: BIOL 111.

BIOL 319  Human Anatomy and Physiology I (Credit 4)  
Basic cellular, neural, skeletal, and muscular anatomy and physiology. May not be used for credit by biology, botany, microbiology, botany, microbiology, zoology, pre-dentistry or pre-medicine majors.  
Prerequisite: BIOL 111; BIOL 112.

BIOL 320  Human Anatomy and Physiology II (Credit 4)  
Continuation of BIOL 319. Integrated approach to endocrine, cardiovascular, respiratory, digestive, urinary, reproductive and developmental anatomy and physiology; includes some histology, histopathology, radiology, and clinical correlations.  
Prerequisites: BIOL 319 or instructor approval.
BIOL 328  Plants and People (Credit 3)
Development and uses of principal economically important plants of the world; plants and plant parts used in production of important commodities; vascular plants. 
Prerequisite: BIOL 101 or BIOL 111 or BIOL 112 or approval of instructor.

BIOL 351  Fundamentals of Microbiology (Credit 4)
Introduction to modern microbiology with emphasis on prokaryotes; includes microbial cell structure, function, and physiology; genetics, evolution, and taxonomy; bacteriophage and viruses; pathogenesis and immunity; and ecology and biotechnology; includes laboratory experience with microbial growth and identification. 
Prerequisites: BIOL 112; CHEM 227 and 237; approval of instructor.

BIOL 352  Diagnostic Bacteriology (Credit 4)
Practical experience in handling, isolation and identification of pathogenic Microorganisms from clinical specimens; rapid identification and serological confirmation along with antibiotic sensitivities and reporting of isolates. 
Prerequisite: BIOL 206 or 351

BIOL 357  Ecology (Credit 3)
Analysis of ecosystems at organismal, population, interspecific and community levels. BIOL 358 is the laboratory for this lecture course. 
Prerequisite: BIOL 112 or approval of instructor

BIOL 358  Ecology Laboratory (Credit 1)
Quantitative analyses of freshwater and terrestrial ecosystems; includes data sampling and presentation of results in written and oral formats; required fieldtrips; analysis of competition and predator-prey interactions using ecological models. 
Prerequisite: BIOL 357 or concurrent enrollment; junior or senior classification.

BIOL 360  Microbial Biotechnology (Credit 2)
An interdisciplinary overview of biotechnology which presents the roles of microorganisms in diverse commercial applications; emphasis on the use of recombinant DNA methodology in this field; social aspects of biotechnology, such as risk management and impact on human health and the environment. 
Prerequisites: BIOL 111; CHEM 102; CHEM 227 recommended.

BIOL 413  Cell Biology (Credit 3)
Structure, function, and biogenesis of cells and their components; interpretation of dynamic processes of cells, including protein trafficking, motility, signaling, and proliferation. 
Prerequisites: BIOL 213 or BICH 410.

BIOL 414  Developmental Biology (Credit 3)
Concepts of development in systems ranging from bacteriophage to the mammalian embryo; use of recombinant DNA technology and embryo engineering to unravel the relationships between growth and differentiation, morphogenesis and commitment, aging and cancer. 
Prerequisite: BIOL 413 or concurrent enrollment or approval of instructor.
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<th>Course</th>
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<tr>
<td>CHEM 101</td>
<td>Fundamentals of Chemistry I (3 credits)</td>
<td>Introduction to modern theories of atomic structure and chemical bonding; chemical reactions; stoichiometry; states of matter; solutions; equilibrium; acids and bases; coordination chemistry.</td>
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<tr>
<td>CHEM 111</td>
<td>Fundamentals of Chemistry I Laboratory (1 credit)</td>
<td>Introduction to methods and techniques of chemical experimentation; qualitative and semi-quantitative procedures applied to investigative situations.</td>
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<td>CHEM 102</td>
<td>Fundamentals of Chemistry (3 credits)</td>
<td>Theory and applications of oxidation-reductions systems; thermodynamics and kinetics; complex equilibria and solubility product; nuclear chemistry; descriptive inorganic and organic chemistry. Prerequisites: CHEM 101.</td>
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<tr>
<td>CHEM 112</td>
<td>Fundamentals of Chemistry II Laboratory (1 credit)</td>
<td>Introduction to analytical and synthetic methods and to quantitative techniques to both inorganic and organic compounds. Prerequisites: CHEM 111.</td>
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<tr>
<td>CHEM 227</td>
<td>Organic Chemistry I (Credit 3)</td>
<td>Introduction to chemistry of compounds of carbon. General principles and their application to various industrial and biological processes. Prerequisite: CHEM 102 or 104. Concurrent registration in CHEM 237 is suggested.</td>
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<tr>
<td>CHEM 228</td>
<td>Organic Chemistry II (Credit 3)</td>
<td>Continuation of CHEM 227. Prerequisite: CHEM 227. Concurrent registration in CHEM 238 is suggested.</td>
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<td>CHEM 237</td>
<td>Organic Chemistry Laboratory (Credit 1)</td>
<td>Operations and techniques of elementary organic chemistry laboratory; preparation, reactions and properties of representative organic compounds. Prerequisites: CHEM 102 or 114; CHEM 227 or registration therein.</td>
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<tr>
<td>CHEM 238</td>
<td>Organic Chemistry Laboratory (Credit 1)</td>
<td>Continuation of CHEM 237. Prerequisites: CHEM 237; CHEM 228 or registration therein.</td>
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<td>CHEM 316</td>
<td>Quantitative Analysis (Credit 2)</td>
<td>Introduction to quantitative methods of analysis; solution chemistry. Chemical equilibrium of analytically useful reactions and of processes important in advanced analytical methods including electrochemistry, separations and kinetic methods. Prerequisite: CHEM 102 or 104.</td>
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<tr>
<td>CHEM 318</td>
<td>Quantitative Analysis Laboratory (Credit 1)</td>
<td>Laboratory work consists of selected experiments in quantitative analysis designed to typify operations of general application; work is primarily volumetric with limited gravimetric experiments. Prerequisites: CHEM 102 or 104; CHEM 315 or registration therein.</td>
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COMM 203  **Public Speaking** (Credit 3)
Training in speeches of social and technical interest designed to teach students to develop and illustrate ideas and information and to inform, stimulate, and persuade their audiences.

COMM 315  **Interpersonal Communication** (Credit 3)
Speech interaction in person-to-person settings; concepts of perception, attraction, self-disclosure, listening, and conflict management through communication; speech interaction patterns and stages in the development of interpersonal communication.

COMM 325  **Persuasion** (Credit 3)
Theory of effective persuasive communication in interpersonal, small group, and public settings; audience analysis, ethics of persuasion, motivational factors, psychological and rhetorical principles, source credibility, and theories of attitude change.

ENGL 104  **Composition and Rhetoric** (Credit 3)
Focus on referential and persuasive researched essays through the development of analytical reading ability, critical thinking and library research skills. (ENGL 104 offered for students whose native language is not English.) U1 and U2 students only.

ENGL 210  **Scientific & Technical Writing** (Credit 3) – *NO LONGER OFFERED AT TAMU*
Principles of composition and rhetoric applied to the basic genres of scientific and technical writing, including the report, proposal and manual.
**Prerequisite:** ENGL 104.

ENGL 241  **Advanced Composition** (Credit 3)  *NOTE: Can be substituted for ENGL 210*
Focuses on the writing of advanced academic and professional prose by integrating computer technology in the analysis and production of that prose.
**Prerequisite:** ENGL 104

FSTC 326  **Food Bacteriology** (Credit 3)
Microbiology of human foods and accessory substances. Raw and processed foods; physical, chemical and biological phases of spoilage. Standard industry techniques of inspection and control. Cross listed with DASC 326.

GENE 301  **Genetics** (Credit 3)
Fundamental principles of genetics: physical basis of Mendelian inheritance, expression and interaction of genes, linkage, sex linkage, biochemical nature of genetic material and mutation.
**Prerequisites:** BIOL 112. Credit cannot be given for both GENE 301 and 320.

GENE 312  **Genetics Lab** (Credit 1)
Exercises in Mendelian genetics, meiosis, probability theory in pedigrees, population and quantitative genetics, as well as other genetics theory; molecular techniques to examine DNA and analyze outcomes.
**Prerequisites:** BIOL 112. **Co-requisite:** GENE 301.
**GEOL 101**  **Principles of Geology (Credit 4)**
Physical and chemical nature of the Earth and dynamic processes that shape it; plate tectonics, Earth’s interior, materials it is made of, age and evolution, earthquakes, volcanism, erosion and deposition; introduces physical and chemical principles applied to the Earth. Not open to students who have taken GEOL 103 or GEOL 104.

**HLTH 236**  **Race, Ethnicity and Health (Credit 3)**
Explore in-depth the racial, ethnic, and cultural dimensions that underlie health and health disparities; emphasis on culture, social economic status and governmental policies as they influence the adaptation of health practices.

**HLTH 334**  **Women’s Health (Credit 3)**
A broad range of health issues that are either unique to women or of special importance to women; information for the health consumer; preparation as an advocate of health lifestyles; awareness of the role health plays in the life of all women.

*Prerequisites:* Junior or senior classification. Cross-listed with WGST 334.

**HLTH 354**  **Medical Terminology for the Health Professions (Credit 3)**
Designed for students interested in pursuing a career in a health, medical, scientific or other helping profession; develop medical word power skills combined with related health and disease knowledge.

*Prerequisites:* Junior or senior classification. *(Satisfies International and Cultural Diversity TAMU requirement)*

**MATH 141**  **Business Mathematics I (Credit 3)**
Linear equations and applications, linear forms and systems of linear equations, matrix algebra and applications, linear programming (graphical and simplex methods), probability and applications, statistics.

*Prerequisites:* High school algebra I, II and geometry. Credit will not be given for more than one of MATH 141 or 166.

**MATH 142**  **Business Mathematics II (Credit 3)**
Derivatives, curve sketching and optimization, techniques of derivatives, logarithms and exponential functions with applications, integrals, techniques and applications of integrals, multivariate calculus.

*Prerequisites:* High school algebra I and II and geometry or satisfactory performance on a qualifying examination. Credit will not be given for more than one of MATH 131, 142, 151, and 171.

**MGMT 309**  **Survey of Management (Credit 3)**
Survey of the basic functions and responsibilities of managers; includes the environmental context of management, planning and decision making, organization, structure and design, leading and managing people, and the controlling process; issues of globalization, ethics, quality and diversity integrated throughout the course

*Prerequisites:* Junior classification; for non-business and non-agribusiness majors.

**PHYS 201**  **College Physics (Credit 4)**
Fundamentals of classical mechanics, heat, and sound. Primarily for architecture, education, premedical, pre-dental, and pre-veterinary medical students.
PHYS 202  **College Physics (Credit 4)**  
Continuation of PHYS 201. Fundamentals of classical electricity and light; introduction to contemporary physics.  
*Prerequisite:* PHYS 201.

POLS 206  **American National Government (Credit 3) (GOVT 2302 or 2305)**  
Survey of American national government, politics, and constitutional development.

POLS 207  **State and Local Government (Credit 3) (GOVT 2301 or 2306)**  
Survey of state and local government and politics with special reference to the constitution and politics of Texas.

PSYC 107  **Introduction to Psychology (Credit 3)**  
Introductory course dealing with elementary principles of human behavior.

PSYC 306  **Abnormal Psychology (Credit 3)**  
Survey of behavior pathology; functional and organic psychoses, psychoneurosis, character disorders, psychophysiological disorders, alcohol and drug addiction and mental retardation; therapeutic and diagnostic methods.  
*Prerequisite:* PSYC 107; Junior classification or PSYC 203 and 204.

PSYC 307  **Developmental Psychology (Credit 3)**  
Growth and development of normal child from infancy to adolescence with emphasis on elementary school years.  
*Prerequisites:* PSYC 107; PSYC 203 and 204 or junior classification.

STAT 302  **Statistical Methods (Credit 3)**  
Intended for undergraduate students in the biological sciences and agriculture (except for agricultural economics). Introduction to concepts of random sampling and statistical inference; estimation and testing hypotheses of means and variances; analysis of variance; regression analysis; chi-square tests. Credit will not be allowed for more than one of STAT 301, 302 or 303.  
*Prerequisite:* MATH 141 or equivalent.

VTPP 425  **Pharmacology (Credit 3)**  
Introduction to pharmacokinetics and pharmacodynamics; survey of major Pharmaceutical classes; uses, mechanisms of action and adverse reactions of selected Agents.  
*Prerequisites:* VTPP 423 or approval of instructor; junior or senior classification. To register for course, you must request a force from the Biomedical Sciences Department. Must have 2.5 or above.

WFSC 403  **Animal Ecology (Credit 3)**  
Concepts of animal ecology which emerge at various levels of organization; the ecosystem, the community, the population and the individual; laboratories emphasis on the quantitative analysis of field data and the simulation of population dynamics.  
*Prerequisites:* WFSC 201 and RENR 205 or approval of instructor; junior classification.
WFSC 420  **Ecology and Society (Credit 3)**
Students study and compare human and natural ecosystems using diversity, interrelations, cycles, and energy as the conceptional organization; central themes of the course are sustainability, stewardship and science. Prerequisite: Junior or senior classification.

**STEM MINOR COURSES**

INST 310  **Understanding Special Populations. (Credit 3)**
Referral, assessment and categorization of special populations including physical, cognitive and affective characteristics; cultural, ethnic, economic and linguistic differences; giftedness; special education and compensatory programs; awareness of legislative history that results in rights for special populations.
*Prerequisite:* Sophomore classification or above.

INST 322  **Foundations of Education in a Multicultural Society. (Credit 3)**
Historical, philosophical and cultural foundations of education emphasizing education for a multicultural society.
*Prerequisite:* Junior classification or above.

RDNG 465  **Reading in the Middle and Secondary Grades. (Credit 3)**
Reading needs of middle and secondary school students with emphasis upon curriculum organization for reading development and assessment of student progress in content area reading. *(Only offered in the fall)*

TEED 302  **Teaching/Learning Processes: Psychological Perspectives on Education. (Credit 3)**
Psychological perspectives on instruction; examines learning processes, learner motivation, home and cultural influences, learning strategies; design and delivery of instruction; controversies regarding learning and instruction.
*Prerequisites:* Junior classification; admission to teacher education.

TEFB 273  **Introduction to Culture, Community, Society and Schools. (Credit 3)**
Field-based course that introduces the culture of schooling and classrooms for analysis within the lens of language, gender, racial, socio-economic, ethnic and academic diversity; the family as a partner in education and educational equality discussed.

TEFB 322  **Teaching and Schooling in Modern Society. (Credit 3)**
Development, structure, management and finance of secondary schools; historical, philosophical, ethical and moral dimensions of teaching; role of school in a democratic society; teaching as a profession.
*Prerequisite:* Junior or senior classification.

TEFB 324  **Teaching Skills II. (Credit 3)**
Study and development of teaching skills necessary for applying instructional strategies; teaching general strategies, assessing student learning, and analyzing and synthesizing multiple source data; emphasis given to adolescent development and cultures and to teacher and child cultures. *Prerequisites:* Successful completion or concurrent enrollment in TEFB 322; junior or senior classification.
TEFB 406  Science in the Middle and Secondary School. (Credit 3)
Methods course for the prospective secondary teacher in the physical and biological sciences; implementation of contemporary curricula. Phase IV, Practicum I.
Prerequisites: Completion of Phases I, II and III of the secondary program; admission to teacher education; enrollment in science-related teaching field. Successful completion of TEFB 322 and TEFB 32. (Only offered in the Fall)
Financial Aid

Financial aid consists of scholarships and grants, loans and part-time employment. To determine your eligibility to receive financial assistance, you must submit the Free Application for Federal Student Aid (FAFSA) each academic year. You may access the electronic version of the FAFSA online at www.fafsa.ed.gov. To contact a financial aid counselor call (979) 845-3236. Information concerning tuition, fees, and financial aid is published in the Texas A&M University Undergraduate Catalog or online at http://financialaid.tamu.edu/.

Scholarships:

- **Department of Nutrition & Food Science (for continuing students)**
  - Deadline: Check with the Advising Office - typically February 1st.
  - Students are recognized at the Department Banquet during Parent’s Weekend.
  - Amounts vary depending upon scholarship
  - Scholarship application will be posted at http://nfs.tamu.edu

- **Academy of Nutrition and Dietetics Foundation**
  - Deadline: Check Website
  - Amounts range from $500 to $3,000
  - Must be Academy of Nutrition and Dietetics Foundation Student Member.
  - http://www.eatright.org

- **Texas Academy of Nutrition and Dietetics Foundation**
  - Deadline: Usually around December 2nd
  - Dietetics Students Only
  - Amounts vary
  - Go to http://www.nutrition4texas.org/tdaf/scholarships for more info.

Refund of Tuition and Fees

A student may drop courses during the first four days of a fall or spring semester. Refunds will not be issued for classes dropped after the 12th class day of a full semester. Please see the TAMU official academic calendar for specific dates.

Tuition Rebate

Certain undergraduate students who attempt not more than three hours in excess of the minimum number of semester credit hours required to complete the degree in the catalog under which they will graduate may be entitled to a $1,000 rebate if they meet the criteria. Students must apply PRIOR to commencement during their last term. Several conditions apply and students must meet all specified criteria.
HELPFUL WEBSITES

- TAMU homepage: http://www.tamu.edu/
- Department of Nutrition and Food Science: http://nfs.tamu.edu
- Office of Admissions and Records: http://www.tamu.edu/admissions/
- Student Financial Aid: https://financialaid.tamu.edu/
- Academy of Nutrition and Dietetics homepage: http://www.eatright.org/
- Accreditation Council for Education in Nutrition and Dietetics (ACEND): http://www.eatright.org/ACEND
- Commission on Dietetic Registration: http://www.cdrnet.org
- TAMU Student Organizations: http://studentactivities.tamu.edu/
- Office of Professional School Advising: http://honor.tamu.edu/opsa/
- TAMU Course Catalogs: http://www.tamu.edu/admissions/catalogs/
- Office of Registrar: http://admissions.tamu.edu/Registrar/

STUDENT ORGANIZATIONS

- Nutrition and Dietetics Association*
- Food Science Club
- AgForLife Student Association

For a list of all organizations at Texas A&M, visit http://getinvolved.tamu.edu/

*NDA is a campus organization composed of Nutritional Science majors and other students with an interest in nutrition. Nutrition and Dietetic Association meetings provide opportunities to learn about career possibilities in the nutrition and dietetics field and to hear speakers on current topics in nutrition. The Nutrition and Dietetic Association also sponsors philanthropic and social activities, promoting club member interaction. All Nutritional Science majors are strongly urged to join as soon as they enter the major. For more information, visit their website at http://tamu-nda.tamu.edu