

CALS Curriculum Committee Meeting

February 16, 2018

2:00 p.m.

1044 McCarty Hall D

Members: T. Andenoro (Chair), R. Baldwin, J. Brendemuhl, T. Frazer, D. Gabriel, P. Inglett, S. Johnson, B. Kolaczowski, A. Mathews, C. Moss, G. Nunez, W. Porter, D. Pracht, D. Rowland, S. Sager, A. Warner, L. Warren, S. Wilson, A. Wysocki

Agenda and Index for Materials

Approve Minutes from January 12, 2018 meeting

Dr. Brendemuhl: Update from UCC

Graduate Course Change Proposal

1. STA 6093 – Introduction to Applied Statistics for Agricultural and Life Sciences (req. #12252)

Certificate Modification

2. Forest Health and Resilience Graduate Certificate (req. #12270)

Undergraduate Program Modification

3. Creation of a Dietetics Online Program (req. #12216)

Discussion Topic

The CALS Curriculum Committee has decided to adjust its procedure regarding the forwarding of syllabuses for new courses to the next level of the approval process. This change in procedure requires a majority vote in favor.

CALS Curriculum Committee Meeting
January 12, 2018
Submitted by James Fant

Members Present: T. Andenoro, J. Brendemuhl, D. Gabriel, S. Johnson, B. Kolaczowski, A. Mathews, C. Moss, G. Nunez, W. Porter, D. Pracht, D. Rowland, S. Sager, A. Warner, L. Warren, S. Wilson

Call to Order: The College of Agricultural and Life Sciences Curriculum Committee met on January 12, 2018 in Rm. 1044 McCarty Hall D. Dr. Tony Andenoro called the meeting to order at 2:02 p.m.

Previous agenda items and supporting material can be found on the CALS Curriculum Committee homepage under archived information:

http://www.cals.ufl.edu/faculty_staff/curriculum_committee.shtml

Approval of Minutes: A motion was made by Dr. Porter to approve the minutes from the December 15, 2017 meeting of the CALS CC. The motion was approved.

All items approved by the committee will be forwarded to either the Graduate Curriculum Committee (GCC), Graduate Council (GC) or the University Curriculum Committee (UCC) once any changes requested are made and the submission is complete.

Websites: Grades – <https://catalog.ufl.edu/ugrad/current/regulations/info/grades.aspx>

Syllabus Statements – <http://www.cals.ufl.edu/faculty-staff/docs/policies/CALS%20Syllabus%20Policy%20Final.pdf>

Absences & Make-Ups – <https://catalog.ufl.edu/ugrad/current/regulations/info/attendance.aspx>

Update from UCC: Dr. Brendemuhl noted that CALS had the following items on the January 16, 2018 agenda: 1) New undergraduate courses – MCB 4XXX – Prokaryotic Diversity and 2) Revised undergraduate course – ORH 2752 – Sensory Gardening. He also noted that the proposed new UG Certificate – Gateway to Agroecology was recycled. But the two new undergraduate courses FYC 4XXX – Engaging Communities for Decision Making and Action and WIS 4XXX – Wildlife Behavior and Conservation were both approved. An update was provided concerning UF Quest. Curriculum committee membership has been requested and thus committees should be in place by late January or early February with hopefully a call for courses by April 2018. He reminded members concerning the Provost Mandate to extend Universal-Tracking into semesters 6-8 and also training associated with various rollouts of UF COMPASS would be happening and to stay abreast and take the trainings. Lastly, the Florida Legislature is now in session and several items may directly impact UF and CALS.

Graduate New Course Proposals

1. HOS 6XXX – Evolution, Ecophysiology and Global Importance of Seeds (req. #12160)

A motion was made by Dr. Porter to approve this item with updates required. The motion was approved. The course description in the syllabus must match the description on the UCC form. In the Attendance and Make-up Policy section the statement regarding late assignments not being accepted needs to be removed as it violates university policy.

2. MCB 6XXX – Astrobiology (req. #12198)

A motion was made by Dr. Johnson to recycle this item back to the department for required changes and resubmission. The motion was approved. A more extensive reading list is required for this submission. The course objectives for the graduate course cannot mirror those of the undergraduate course. Some of them can be the same, but the others must reflect the differences expected for graduate students. Also, the syllabus must contain information showing the difference in rigor for the graduate students as opposed to the undergrads. It was suggested that you attach a separate document to the submission explaining these differences. This will help further along in the approval process and can be included in the syllabuses. In the grading breakdown the #4 was skipped. It goes from #3 – Astrobiology Primary Literature Paper Analyses to #5 – Weekly quizzes. The attendance and make-up policy cannot violate the university policy. You must also include the link to this policy in the syllabus and on the UCC form (<https://catalog.ufl.edu/ugrad/current/regulations/info/attendance.aspx>). You must also include the link to the university's grading policy in your grading section (<https://catalog.ufl.edu/ugrad/current/regulations/info/grades.aspx>). The CALS boilerplate containing the statements on academic honesty and campus helping resources must be updated. This can be found at: <http://www.cals.ufl.edu/faculty-staff/docs/policies/CALS%20Syllabus%20Policy%20Final.pdf>.

3. MCB 6XXX – Environmental Microbiology (req. #12199)

A motion was made by Scott Sager to approve this item with changes required. The motion was approved. The prerequisite should match on both the UCC form and in the syllabus. The UCC form indicates a passing grade in MCB3020 or MCB3023. A passing grade is a D-. Should it say a grade of C or better? The syllabus does not mention a passing grade. Also, you should remove “or an equivalent introductory microbiology course.” Wording cannot be enforced in the prerequisite checker. Instructor approval applies to all courses and will address this issue. The course objectives for the graduate course cannot mirror those of the undergraduate course. Some of them can be the same, but the others must reflect the differences expected for graduate students. Also, the syllabus must contain information showing the difference in rigor for the graduate students as opposed to the undergrads. It was suggested that you attach a separate document to the submission explaining these differences. This will help further along in the approval process and can be included in the syllabuses. In the grading section of the syllabus, letter A under Module one, the last statement (Approximately 10-15 points each, 200 points total) should be removed as it contradicts the statement at the beginning of the quiz section. The CALS boilerplate containing the statements on academic honesty and campus helping resources must be updated. This can be found at: <http://www.cals.ufl.edu/faculty-staff/docs/policies/CALS%20Syllabus%20Policy%20Final.pdf>.

4. MCB 6XXX – Microbial Applications of Synthetic Biology (req. #11709)

This item was reviewed with item #6. Comments apply to both submissions unless otherwise stated.

A motion was made by Dr. Kolaczowski to recycle these items back to the department for required updates and resubmission. The motion was approved. A reading list needs to be included on the UCC form and Syllabus for the graduate submission. The three page difference required for the graduate research proposal versus the one for undergraduates is not a sufficient enough gap in rigor for the graduate students. The course objectives for the graduate course cannot mirror those of the undergraduate course. Some of them can be the same, but the others must reflect the differences expected for graduate students. Also, the syllabus must contain information showing the difference in rigor for the graduate students as opposed to the undergrads. It was suggested that you attach a separate document to the submission explaining these differences. This will help further along in the approval process and can be included in the syllabuses. There should be only one course number on each syllabus. The course description on the UCC form must match the description on the syllabus. The prerequisite requirement in each syllabus needs to match the one on the UCC form. Use only the courses required. Additional wording cannot be enforced by the prerequisite checker. Based on the information provided it is not clear if this course is synchronous or asynchronous. There needs to be more specific information in both syllabuses regarding the quizzes, discussions and homework assignments.

Undergraduate New Course Proposals

5. FOS 4XXX – Flavor Chemistry (req. #12138)

A motion was made by Scott Sager to approve this item with updates required. The motion was approved. Add “each” after Exams (2) – 100 pts in the grading scheme on the UCC form and in the syllabus. Change “approximately one week” to seven days in the Homework/Reports section on the UCC form and in the syllabus. There should also be an explanation of what the homework assignments and reports will entail. The link to the Registrars site on grades (<https://catalog.ufl.edu/ugrad/current/regulations/info/grades.aspx>) needs to be included with the grading scale.

6. MCB 4XXX – Microbial Applications of Synthetic Biology (req. #11708)

See item #4.

Undergraduate Course Change Proposal

7. MCB 4203 – Bacterial and Viral Pathogens (req. #11861)

A motion was made by Dr. Johnson to approve this item with updates required. The motion was approved. Since the request is to remove Viral from the course title, the committee asks if “antivirals” should be removed from the third course objective. “Attendance policy” should be removed from the course format section as the attendance and make-up policy are addressed later in the syllabus with the required link.

Certificate Revision

8. Environmental Education and Communication Graduate Certificate (req. #12164)

A motion was made by Dr. Porter to approve this item as submitted. The motion was approved.

Informational item

9. SLO-AAP for Mapping with Unmanned Aerial Systems Graduate Certificate (req. #12163)

The item was presented by Dr. Brendemuhl and noted by all committee members.

Discussion item

The committee discussed removing the syllabus from a new course proposal prior to forwarding the item to the next stage of the approval process. It was decided that this will be the new policy of the committee. A course syllabus will still be required for CALS CC review of a new course. This will be added as an agenda item for next month's meeting.

The meeting was adjourned at 3:25 p.m.

Cover Sheet: Request 12252

STA6093 Introduction to Applied Statistics for Agricultural and Life Sciences

Info

Process	Course Modify Grad
Status	Pending at CALS - College of Agricultural and Life Sciences
Submitter	Rhiannon Pollard rhiannon-pollard@ufl.edu
Created	1/26/2018 10:25:23 AM
Updated	1/29/2018 9:09:12 AM
Description of request	This course provides students with a conceptual and practical understanding of the application of statistics in the agricultural and life sciences. This is an online course that will use a combination of lectures, programming demonstrations, data exercises using the programming language R, group activities, and primary literature to teach introductory statistics at the graduate level.

Actions

Step	Status	Group	User	Comment	Updated
Department	Approved	CALS - Forest Resources and Conservation 514946000	Terrell Baker III		1/29/2018
No document changes					
College	Pending	CALS - College of Agricultural and Life Sciences			1/29/2018
No document changes					
Graduate Curriculum Committee					
No document changes					
University Curriculum Committee Notified					
No document changes					
Statewide Course Numbering System					
No document changes					
Graduate School Notified					
No document changes					
Office of the Registrar					
No document changes					
College Notified					
No document changes					

Course|Modify for request 12252

Info

Request: STA6093 Introduction to Applied Statistics for Agricultural and Life Sciences

Description of request: This course provides students with a conceptual and practical understanding of the application of statistics in the agricultural and life sciences. This is an online course that will use a combination of lectures, programming demonstrations, data exercises using the programming language R, group activities, and primary literature to teach introductory statistics at the graduate level.

Submitter: Rhiannon Pollard rhiannon-pollard@ufl.edu

Created: 1/26/2018 10:21:09 AM

Form version: 1

Responses

Current Prefix STA

Course Level 6

Number 093

Lab Code None

Course Title Introduction to Applied Statistics for Agricultural and Life Sciences

Effective Term Fall

Effective Year 2018

Requested Action Other (selecting this option opens additional form fields below)

Change Course Prefix? No

Change Course Level? No

Change Course Number? No

Change Lab Code? No

Change Course Title? No

Change Transcript Title? No

Change Credit Hours? No

Change Variable Credit? No

Change S/U Only? No

Change Contact Type? No

Change Rotating Topic Designation? No

Change Repeatable Credit? No

Maximum Repeatable Credits 3

Change Course Description? No

Change Prerequisites? Yes

Current Prerequisites 1 undergraduate course in statistics

Proposed Prerequisites none - remove prerequisites

Change Co-requisites? No

Rationale Graduate students taking this course often do not have statistics courses on their UF transcripts, so the prerequisite is problematic. Students will be advised that they need some background, but system-based checks are unnecessary and impeding registration logistics.



Cover Sheet: Request 12270

Forest Health and Resilience

Info

Process	Certificate Close/Modify Grad Revised
Status	Pending at CALS - College of Agricultural and Life Sciences
Submitter	Sandra Houder shouder@ufl.edu
Created	2/1/2018 1:22:12 PM
Updated	2/2/2018 3:23:35 PM
Description of request	Request to remove one elective and replace it with another elective.

Actions

Step	Status	Group	User	Comment	Updated
Department	Approved	CALS - Forest Resources and Conservation 514946000	Terrell Baker III		2/2/2018
No document changes					
College	Pending	CALS - College of Agricultural and Life Sciences			2/2/2018
No document changes					
Graduate Council					
No document changes					
Graduate School Notified					
No document changes					
University Curriculum Committee Notified					
No document changes					
Office of the Registrar					
No document changes					
OIPR Notified					
No document changes					
Academic Assessment Committee Notified					
No document changes					
Student Academic Support System					
No document changes					
College Notified					
No document changes					

Certificate|Close-Modify for request 12270

Info

Request: Forest Health and Resilience

Description of request: Request to remove one elective and replace it with another elective.

Submitter: Sandra Houder shouder@ufl.edu

Created: 2/1/2018 12:50:49 PM

Form version: 1

Responses

Current Certificate Name Forest Health and Resilience

Effective Term Earliest Available

Effective Year Earliest Available

Requested Action Other (selecting this option will open additional form fields below)

Change Certificate Name? No

Proposed Certificate Name no change

Change Certificate Name on Transcript? No

Current Transcript Name Forest Health and Resilience

Proposed Transcript Name (21 char. max) no change

Change Credit Hours? No

Current Credit Hours 12

Proposed Credit Hours 12

Change Certificate Description? No

Current Certificate Description The Graduate Certificate in Forest Health & Resilience is a multidisciplinary program that addresses the current and emerging threats to forest health, the ecological, social and economic importance of forest health, and provides professionals with management tools to enhance forest resilience and minimize the impacts of forest health threats.

Proposed Certificate Description (50 word max) no change

Change Certificate Prerequisites? No

Current Prerequisites Open to current UF grad students and certificate-only students with a baccalaureate degree or equivalent from a regionally accredited institution.

Proposed Prerequisites no change

Change Certificate Requirements? Yes

Current Requirements Students must earn a B or better in each course in order to use it for the certificate. Students must earn a total of 12 credits.

Courses:

REQUIRED (6 credits):

- FOR 6151 Forest Ecosystem Health (3 credits, letter graded)
- FOR 6xxx Forest Ecological Resilience (3 credits, letter graded, UCC process beginning soon)

ELECTIVES: (Choose two from below choices for 6 credits):

- FOR 6xxx Forest Health Management (3 credits, letter graded, UCC process beginning soon)
- FOR 6xxx Emerging Issues in Forest Health and Management (3 credits, letter graded, UCC process beginning soon)
- FOR 5159 Ecology and Restoration of Longleaf Pine Ecosystem (3 credits, letter graded)
- FNR 6669 Policy & Economics of Natural Resources (3 credits, letter graded)
- ENY 5405 Insects as Vectors of Plant Pathogens (3 credits, letter graded)
- ENY 5006 Graduate Survey of Entomology (2 credits, letter graded)
- ENY 5006L Graduate Survey of Entomology Laboratory (1 credit, letter graded)
- FOR 6215 Fire Paradigms (3 credits, letter graded)
- ENY 6934 / FOR 6934 Special Topics – Bark and Ambrosia Beetle Academy (short course located in Gainesville, FL, 3 credits, letter graded)

Proposed Requirements Students must earn a B or better in each course in order to use it for the certificate. Students must earn a total of 12 credits.

Courses:

REQUIRED (6 credits):

- FOR 6151 Forest Ecosystem Health (3 credits, letter graded)
- FOR 6xxx Forest Ecological Resilience (3 credits, letter graded, UCC process beginning soon)

ELECTIVES: (Choose two from below choices for 6 credits):

- FOR6xxx Ecology and Restoration of Invaded Ecosystems (3 credits, letter graded, UCC process beginning soon)

beginning soon)

- FOR 6xxx Emerging Issues in Forest Health and Management (3 credits, letter graded, UCC process beginning soon)
- FOR 5159 Ecology and Restoration of Longleaf Pine Ecosystem (3 credits, letter graded)
- FNR 6669 Policy & Economics of Natural Resources (3 credits, letter graded)
- ENY 5405 Insects as Vectors of Plant Pathogens (3 credits, letter graded)
- ENY 5006 Graduate Survey of Entomology (2 credits, letter graded)
- ENY 5006L Graduate Survey of Entomology Laboratory (1 credit, letter graded)
- FOR 6215 Fire Paradigms (3 credits, letter graded)
- ENY 6934 / FOR 6934 Special Topics – Bark and Ambrosia Beetle Academy (short course located in Gainesville, FL, 3 credits, letter graded)

Impact on Program We would like to remove one 3-credit elective and replace it with another 3-credit elective.

Student's elective choices will be enhanced with less possible instructional overlap.

Rationale for Proposed Change(s) Some course content in the elective FOR6xxx Forest Health Management overlaps with content in the required course FOR6151 Forest Ecosystem Health.

We would like to remove Forest Health Management as an elective and replace it with FOR6xxx Ecology and Restoration of Invaded Ecosystems. The Invaded Ecosystems course supports and reinforces the certificate SLOs and is taught by tenure-track faculty in SFRC.

Assessment Data Review The certificate has just gone through the approvals process but has not begun yet (anticipated start date Fall 2018).

Academic Assessment Plan Changes No changes necessary. Currently the plan is to assess SLOs through SLO-aligned assignments in the two required courses for the certificate (with SLO rubrics).

Cover Sheet: Request 12216

Dietetics Online

Info

Process	Program Modify Platform Ugrad/Pro
Status	Pending at CALS - College of Agricultural and Life Sciences
Submitter	Susan Percival percival@ufl.edu
Created	1/9/2018 11:39:09 AM
Updated	1/9/2018 11:40:13 AM
Description of request	Rationale for offering an online version of Dietetics stems from the high need for dietitians in Florida as well as the US in general. Florida has only 4 DPD programs (undergraduate didactic program in dietetics) and none are online. There are other Dietetics programs in the nation that are increasing their online presence. With our emphasis on science in our existing curriculum, our proposed curriculum will continue to support the integrity of the profession using evidenced based materials and developing critical thinking skills.

Actions

Step	Status	Group	User	Comment	Updated
Department	Approved	CALS - Food Science and Human Nutrition 514915000	Susan Percival		1/9/2018
Dietetics catalog copy.docx					1/9/2018
College	Pending	CALS - College of Agricultural and Life Sciences			1/9/2018
No document changes					
Associate Provost for Undergraduate Affairs					
No document changes					
University Curriculum Committee					
No document changes					
UF Online					
No document changes					
Office of the Registrar					
No document changes					
OIPR Notified					
No document changes					
Student Academic Support System					
No document changes					
Catalog					
No document changes					
College Notified					
No document changes					

Program|Modify_Platform for request 12216

Info

Request: Dietetics Online

Description of request: Rationale for offering an online version of Dietetics stems from the high need for dietitians in Florida as well as the US in general. Florida has only 4 DPD programs (undergraduate didactic program in dietetics) and none are online. There are other Dietetics programs in the nation that are increasing their online presence. With our emphasis on science in our existing curriculum, our proposed curriculum will continue to support the integrity of the profession using evidenced based materials and developing critical thinking skills.

Submitter: Susan Percival percival@ufl.edu

Created: 1/9/2018 10:56:48 AM

Form version: 1

Responses

Name Dietetics

Major or Minor Code DIE

Effective Term Fall

Effective Year 2018

Differences from Residential Program The Didactic Program in Dietetics (DPD) is accredited by the Accreditation Council for Education in Nutrition and Dietetics (ACEND) of the Academy of Nutrition and Dietetics. The content of the Online major will not differ from the live program due to the accreditation standards and competencies already approved.

Pedagogical Rationale/Justification Dietitians are in high demand and short supply. First, despite at least one third of hospitalized patients being admitted malnourished, a majority of these patients continue to go unrecognized or are inadequately screened. Second, while the responsibility of patients' nutrition care is often placed on the dietitian, many institutions lack adequate dietitian staffing to properly address all patients. Third, nutrition care is often delayed due to the patient's medical status, lack of diet order, and time to nutrition consult. Fourth, nurses provide and oversee patient care 24/7, observe nutrition intake and tolerance, and interact continually with the patient and their family/caregivers, yet they are rarely included in nutrition care. Fifth, in many care environments, physician sign-off is required to implement a nutrition care plan. Dietitian recommendations are implemented in only 42% of cases. Finally, many patients experience difficulty consuming meals without assistance, contributing to more than half of hospitalized patients not finishing their meals (Tappenden et al. 2013, JAND). Only 4 programs exist in the state and none are online.

Impact on Existing Residential and Online Programs This is a specialized major resulting in accreditation to practice nutrition care. It will not impact other residential programs, including the existing residential program. The online degree will serve a population of students who cannot come to campus. Only 4 programs exist in the state and none offer an online version. We anticipate enrollment of 20-50 and therefore should not impact general education or prerequisite courses.

Dietetics

The major in dietetics applies the science of food and nutrition to the health and well-being of individuals and groups and prepares students with the undergraduate education needed to become a registered dietitian.

About this Major

- **College:** [Agricultural and Life Sciences](#)
- **Degree:** Bachelor of Science
- **Credits for Degree:** 120
- [Academic Learning Compact](#)
- [Additional Information](#)

- [Related Food Science and Human Nutrition Programs](#)

To graduate with this major, students must complete all university, college, and major requirements.

Critical Tracking Model Semester Plan

Overview

The Didactic Program in Dietetics (DPD) is accredited by the Accreditation Council for Education in Nutrition and Dietetics (ACEND) of the Academy of Nutrition and Dietetics. Successful program completion enables students to compete for placement in dietetic internships, a required step in becoming a Registered Dietitian (RD). Students may also pursue graduate study.

Registered dietitians are employed in health care facilities, government and public health agencies, food companies, schools and universities, private practice, and a variety of other settings. Opportunities are also increasing for RDs in wellness and fitness programs and in sales and marketing for business and industry. Students interested in dietetic internships should obtain volunteer or work experience with an RD, and participate in leadership opportunities with the FSHN Club or other clubs on campus.

Critical Tracking

Critical Tracking records each student's progress in courses that are required for entry to each major. Please note the critical-tracking requirements below on a per-semester basis.

Equivalent critical-tracking courses as determined by the State of Florida [Common Course Prerequisites](#) may be used for transfer students.

Semester 1

- Complete CHM 2045/2045L or MAC 1147
- 2.5 GPA required for all critical-tracking courses

- 2.0 UF GPA required

Semester 2

- Complete CHM 2045/2045L and MAC 1147
- 2.5 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Semester 3

- Complete CHM 2046/2046L and BSC 2010/2010L
- 2.5 GPA required for all critical-tracking courses
- 2.0 UF GPA required

Semester 4

- Complete BSC 2011/2011L
- 2.5 GPA required for all critical-tracking courses
- 2.0 UF GPA required

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Model Semester Plan

To remain on track, students must complete the appropriate critical-tracking courses, which appear in bold. These courses must be completed by the terms as listed above in the Critical Tracking criteria.

This semester plan represents an example progression through the major. Actual courses and course order may be different depending on the student's academic record and scheduling availability of courses. Prerequisites still apply.

Semester 1	Credits
AEB 2014 Economic Issues, Food and You, <i>3 credits, or</i> ECO 2013 Principles of Macroeconomics, <i>4 credits, or</i> ECO 2023 Principles of Microeconomics, <i>4 credits</i> <i>GE-S</i>	3-4
MAC 1147 Precalculus: Algebra and Trigonometry <u>State Core GE-M</u>	4
Composition <u>State Core GE-C; WR</u>	3
Humanities <u>State Core GE-H</u>	3

Total 13-14

Semester 2 Credits

**CHM 2045 General Chemistry 1, 3 credits, and
CHM 2045L General Chemistry 1 Laboratory, 1 credit 4**
State Core GE-B/P

IUF 1000 What is the Good Life
GE-H 3

PSY 2012 General Psychology
State Core GE-S 3

Composition
GE-C; WR 3

Elective 3

Total 16

Semester 3 Credits

**BSC 2010 Integrated Principles of Biology 1, 3 credits, and
BSC 2010L Integrated Principles of Biology Laboratory 1, 1 credit 4**
GE-B

**CHM 2046 General Chemistry 2, 3 credits, and
CHM 2046L General Chemistry 2 Laboratory, 1 credit 4**
GE-B

STA 2023 Introduction to Statistics 1
GE-M 3

Elective 1

Social and Behavioral Sciences
GE-S 3

Total 15

Semester 4 Credits

**BSC 2011 Integrated Principles of Biology 2, 3 credits, and
BSC 2011L Integrated Principles of Biology Laboratory 2, 1 credit 4**
GE-B/P

HUN 2201 Fundamentals of Human Nutrition	3
MCB 2000 and 2000L Microbiology (3) and Microbiology Laboratory (1) <i>GE-B</i>	4
Elective	3
Total	14

Semester 5 **Credits**

AEC 3030C Effective Oral Communication	3
AEC 3033C Research and Business Writing in Agricultural and Life Sciences <i>WR</i>	3
CHM 2210 Organic Chemistry 1 <i>Minimum grade of C within two attempts, including withdrawals</i>	3
FOS 3042 Introductory Food Science	3
MAN 3025 Principles of Management	4
Total	16

Semester 6 **Credits**

AEB 3122 Financial Planning for Agribusiness	3
APK 2105C Applied Human Physiology with Laboratory	4
CHM 2211 Organic Chemistry 2, 3 credits, and CHM 2211L Organic Chemistry Laboratory, 2 credits	5
DIE 3310 Community Nutrition	2
HUN 3403 Nutrition through the Life Cycle	2
Total	16

Semester 7 **Credits**

BCH 3025 Fundamentals of Biochemistry	4
DIE 4125 Food Systems Management, 3 credits, and DIE 4125L Food Systems Management Laboratory, 2 credits	5
DIE 4245 Medical Nutrition Therapy Applications: Part 1	3

DIE 4505 Dietetics Seminar	1
HUN 4445 Nutrition and Disease: Part 1	2
Total	15

Semester 8	Credits
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DIE 4246 Medical Nutrition Therapy Applications: Part 2	3
DIE 4436 Nutrition Counseling and Communication	2
FOS 4311 Food Chemistry, <i>3 credits, and</i> FOS 4310L Experimental Foods Laboratory, <i>1 credit</i>	4
HUN 4221 Nutrition and Metabolism	3
HUN 4446 Nutrition and Disease: Part 2	3
Total	15

Additional electives may be needed to complete the 120 credits required for graduation.

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