



Curriculum and Course Change System - Print Minor Form

Change Minor: Biochemistry
 Effective Catalog Year: 2013

000001

..Change Minor Name to:

XChange Minor Requirements:

Current Catalog Description: A minor in Biochemistry requires BIOCH 301, 302, and at least 11 credits in any other biochemistry course at the 400 level.

Proposed Catalog Description: A minor in Biochemistry requires 3 credits of GEN 300 or GEN 302, 3 credits of BIOCH 301 or BIOCH 305, and 9 credits of 400-level Biochemistry courses.

Summary/ Explanation: The current requirements for a minor in Biochemistry include one course (BIOCH 302) that is not open to nonmajors, so a different BIOCH course has been proposed to replace the unavailable course. Also, we feel that a student minoring in either Genetics or Biochemistry would benefit from a solid introduction to both disciplines. Finally, we have adjusted the credits required from the 400-level courses.

Form Originator: HLIANG, Haiying Liang **Date Form Created:** 1/24/2012

Form Last Updated by: RJKSN, Robert Kosinski **Date Form Last Updated:** 3/7/2012

Form Number: 4830

Approval

<i>Cheryl Ingram-Sitt</i>	3-7-12	<i>Charles W. Moore</i>	4/6/2012
Chair, Department Curriculum Committee	Date	Chair, Undergraduate Curriculum Committee	Date
<i>Ray E. Smith</i>	3/8/12		
Department Chair	Date	Chair, Graduate Curriculum Committee	Date
<i>Robert J. Kosinski</i>	3/8/12	<i>David P. Helms</i>	6/11/12
Chair, College Curriculum Committee	Date	Provost	Date
<i>Zed Whitener</i>	3/8/12	<i>James O. ...</i>	6/11/12
College Dean	Date	President	Date



Curriculum and Course Change System - Print Minor Form

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Change Minor: Genetics
 Effective Catalog Year: 2013

..Change Minor Name to:

XChange Minor Requirements:

Current Catalog Description: A minor in Genetics requires GEN 302, 303, and at least 11 credits in any other genetics course at the 400 level.

Proposed Catalog Description: A minor in Genetics requires 3 credits of GEN 300 or GEN 302, 3 credits of BIOCH 301 or BIOCH 305, and 9 credits of 400-level GEN courses.

Summary/ Explanation: The current requirements for a minor in Genetics include one course (GEN 303) that is not open to nonmajors, so a different GEN course has been proposed to replace the unavailable course. Also, we feel that a student minoring in either Genetics or Biochemistry would benefit from a solid introduction to both disciplines. Finally, we have adjusted the credits required from the 400-level courses.

Form Originator: HLIANG, Haiying Liang Date Form Created: 1/24/2012

Form Last Updated by: RJKSN, Robert Kosinski Date Form Last Updated: 3/7/2012

Form Number: 4829

Approval

	3-7-12		4/6/2012
Chair, Department Curriculum Committee	Date	Chair, Undergraduate Curriculum Committee	Date
<i>For K. Kosinski</i> 	3/8/12		
Department Chair	Date	Chair, Graduate Curriculum Committee	Date
	3/8/12		6/11/12
Chair, College Curriculum Committee	Date	Provost	Date
	7/8/12		6/11/12
College Dean	Date	President	Date



Curriculum and Course Change System - Print Change/Delete Course Form

X Change a Course - Abbrev & Number: BIOSC- 210
 Corresponding Lab Course: --
 Corresponding Honors course: --
 .. **Add Honors course:** --
 Corresponding Graduate course: --
 .. **Add Graduate course:** --
Course Title: INTRO TO TOXICOLOGY

000003

Brief Statement of Change:
 Change of prerequisites. Assessment results show that students without two semesters of introductory biology do not have the background to do well in the course. Increasing the prerequisites to a full two semesters will strengthen the course and make it more appealing to a broader group of students.

Last Term taught: 1201	.. Change Abbrev to:
Effective Term: 05/2012	.. Change Number to:
.. Change Catalog Title:	.. Change Transcript Title:
from:	from: INTRO TO TOXICOLOGY
to:	to:

.. Change of Credit:	From: Fixed Credit: 3 (3,)	To: Fixed Credit: (,)
	Variable Credit: - (-), (-)	Variable Credit: - (-),(-)

.. **Add cross-listing with the following child course(s):**
 .. **Delete cross-listing with the following child course(s):**
 .. **Reverse Parent/Child relationship with:**

.. Change Method of Instruction		.. Change Course Modifier		.. Change General Education Designation	
from:	to:	from:	to:	from:	to:
X A-Lecture Only	.. .. Pass/Fail Only	..	..	.. English Composition	..
.. B-Lab (w/fee)	.. X Graded	..	..	.. Oral Communication	..
.. D-Seminar	.. .. Variable Title	..	..	.. Mathematics	..
.. E-Independent Study	.. .. Creative Inquiry	..	..	.. Natural Science w/Lab	..
.. F-Tutorial (w/fee)	.. .. Repeatable	..	..	.. Math or Science	..
.. G-Studio	.. maximum credits	..	..	.. A&H (Literature)	..
.. H-Field course	.. from:	..	..	.. A&H (Non-Literature)	..
.. I-Study Abroad	.. to:	..	..	.. Social Science	..
.. L-Lab (no/fee)	..	..	..	.. CCA	..
.. N/B-Lecture/Lab(w/fee)	..	..	..	.. STS	..
.. N/L-Lecture/Lab(no fee)	..	..	..

.. **Change Catalog Description:**
from:
to:
X Change Prerequisite(s):
from: BIOL 103/105, 110 or consent of instructor
to: BIOL 110 and BIOL 111, or BIOL 103 and BIOL 104, or consent of instructor
Learning Objectives:
Topical Outline:
Evaluation:

Form Originator: PVDHURK, Peter Van Den **Date Form Created:** 2/23/2012
Form Last Updated by: , **Date Form Last Updated:** 2/27/2012
Form Number: 4925

Approval

	2/27/12		4/6/2012
Chair, Department Curriculum Committee	Date	Chair, Undergraduate Curriculum Committee	Date
	2/27/12		
Department Chair	Date	Chair, Graduate Curriculum Committee	Date
	3/8/12		

000004

Chair, College Curriculum Committee	Date	Provost	Date
<i>Ed Whitford</i>	<i>3/8/12</i>	<i>David R. Helms</i>	<i>6/14/12</i>
College Dean	Date	President	Date
		<i>James J. [unclear]</i>	<i>6/14/12</i>
Director, Calhoun Honors College	Date		



Curriculum and Course Change System - Print Change/Delete Course Form

000009

X Change a Course - Abbrev & Number: ANTH- 451

Corresponding Lab Course: --

Corresponding Honors course: --

.. Add Honors course: --

Corresponding Graduate course: --

.. Add Graduate course: --

Course Title: HUMAN VARIATION

Brief Statement of Change:

The course has a significant biological component, and will be both appropriate and attractive to students in BIO SC. In conjunction with other BIO SC courses, this one places human variation in proper evolutionary and genetic contexts.

Last Term taught: 1001

.. Change Abbrev to:

Effective Term: 05/2012

.. Change Number to:

.. Change Catalog Title:

.. Change Transcript Title:

from:

from: HUMAN VARIATION

to:

to:

.. From: Fixed Credit: 3 (3,) To: Fixed Credit: (,)

Change of Credit Variable Credit: - (-), (-) Variable Credit: - (-),(-)

X Add cross-listing with the following child course(s): BIO SC 451

.. Delete cross-listing with the following child course(s):

.. Reverse Parent/Child relationship with:

.. Change Method of Instruction	.. Change Course Modifier	.. Change General Education Designation
from: to:	from: to:	from: to:
X A-Lecture Only	.. Pass/Fail Only	.. English Composition
.. B-Lab (w/fee)	.. X Graded	.. Oral Communication
.. D-Seminar	.. Variable Title	.. Mathematics
.. E-Independent Study	.. Creative Inquiry	.. Natural Science w/Lab
.. F-Tutorial (w/fee)	.. Repeatable	.. Math or Science
.. G-Studio	.. maximum credits	.. A&H (Literature)
.. H-Field course	from:	.. A&H (Non-Literature)
.. I-Study Abroad	to:	.. Social Science
.. L-Lab (no/fee)		.. CCA
.. N/B-Lecture/Lab(w/fee)		.. STS
.. N/L-Lecture/Lab(no fee)		

.. Change Catalog Description:

from:

to:

.. Change Prerequisite(s):

from:

to:

Learning Objectives:

Topical Outline:

Evaluation:

Form Originator: RAUCUS, John Coggeshall Date Form Created: 11/1/2011

Form Last Updated by: RAUCUS, John Coggeshall Date Form Last Updated: 11/1/2011


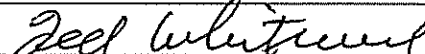
Form Number: 4636

Approval

	11/8/11		4/6/2012
Chair, Department Curriculum Committee	Date	Chair, Undergraduate Curriculum Committee	Date
	11/17/11		
Department Chair	Date	Chair, Graduate Curriculum Committee	Date
	11/14/11		6/11/12
Chair, College Curriculum Committee	Date	Provost	Date
	11/17/11		6/11/12
College Dean	Date	President	Date
Director, Calhoun Honors College	Date		

Approvals related to cross-listing require the following signatures:

	2/24/12		3/8/12
--	---------	--	--------

[Child Course] Chair, Department Curriculum Committee	Date	[Child Course] Chair, College Curriculum Committee ⁰⁰⁰⁰¹⁰	Date
	2/24/12		3/8/12
[Child Course] Department Chair	Date	[Child Course] College Dean	Date



Curriculum and Course Change System - Print Change/Delete Course Form

000005

X Change a Course - Abbrev & Number: MICRO- 410
 Corresponding Lab Course: MICRO-L-410
 Corresponding Honors course: MICRO-H-410
 .. **Add Honors course:** --
 Corresponding Graduate course: MICRO- -610
 .. **Add Graduate course:** --
Course Title: SOIL MICROBIOLOGY

Brief Statement of Change:
 We wish to establish the lecture and laboratory as separate courses, change the lecture course credits, and revise the prerequisites. Assessment of the overall Microbiology curriculum has indicated that the students need more flexibility in their ability to learn the theoretical (lecture) and technical (laboratory skills) aspects of their chosen discipline. This has been accomplished on a curriculum-wide basis with recent reorganization of the Microbiology curriculum. Soil Microbiology has not been taught since 2004, and this request is being put forward to bring this course into line with the recent Microbiology revision. Also, we wish to increase the number of credits for the lecture from 2 to 3 hours. This is necessary to encompass recent and rapid advances in the field while providing the students with sufficient direct contact time with the instructor to ensure mastery of the material. Lastly, we wish to add MICRO 401 (Microbial Diversity and Ecology) to the list of prerequisites and remove MICRO 305 . This addition is essential as it is our intent to expand on concepts initially taught in MICRO 401 in the context of the soil environment. We wish to remove MICRO 305 from the prerequisite list as it is already a prerequisite for MICRO 401.

Last Term taught: 0408	.. Change Abbrev to:
Effective Term: 05/2012	.. Change Number to:
.. Change Catalog Title:	.. Change Transcript Title:
from:	from: SOIL MICROBIOLOGY
to:	to:

X	From: Fixed Credit: 3 (2,3)	To: Fixed Credit: 3 (3,0)
Change of Credit:	Variable Credit: - (-), (-)	Variable Credit: - (-),(-)

.. **Add cross-listing with the following child course(s):**
 .. **Delete cross-listing with the following child course(s):**
 .. **Reverse Parent/Child relationship with:**

X Change Method of Instruction		.. Change Course Modifier		.. Change General Education Designation	
from:	to:	from:	to:	from:	to:
.. A-Lecture Only	X	.. Pass/Fail Only	..	.. English Composition	..
.. B-Lab (w/fee) X Graded	..	.. Oral Communication	..
.. D-Seminar Variable Title	..	.. Mathematics	..
.. E-Independent Study Creative Inquiry	..	.. Natural Science w/Lab	..
.. F-Tutorial (w/fee) Repeatable	..	.. Math or Science	..
.. G-Studio maximum credits	..	.. A&H (Literature)	..
.. H-Field course from:	..	.. A&H (Non-Literature)	..
.. I-Study Abroad to:	..	.. Social Science	..
.. L-Lab (no/fee) CCA	..
X N/B-Lecture/Lab(w/fee) STS	..
.. N/L-Lecture/Lab(no fee)	..				

.. **Change Catalog Description:**
 from:
 to:

X **Change Prerequisite(s):**
 from: MICRO 305
 to: MICRO 401 or consent of Instructor

Learning Objectives: Students completing this course will understand the interactions of the physical soil environment with the microbes that inhabit the soil. Students will have gained a working knowledge of how the resident microbiota impact the plant communities (natural, agricultural, or urban) which are also a part of these ecosystems. Finally, students will have learned how to harness the power of soil microbes to aid in maintaining soil fertility, recycling wastes, and in the removal of xenobiotic chemicals that can pollute some environments.

Topical Outline: Part 1: General Principles and Concepts (15 lecture hr total)
 A. Soil Habitat (3 lecture hr)

B. General Ecology (5 lecture hr)
 C. Microbial Diversity within the Soil (6 Lecture hr)
 Exam 1 (1 lecture hr)

000005

Part 2: Nutrient Cycles within the Soil (15 lecture hr total)

A. Carbon (4 lecture hr)
 B. Nitrogen (4 lecture hr)
 C. Phosphorus (2 lecture hr)
 D. Sulfur (2 lecture hr)
 E. Iron and other trace elements (2 lecture hr)
 Exam 2 (1 lecture hr)

Part 3: Plant-Microbe Interactions and Applied Soil Microbiology (10 lecture hr total)

A. Rhizobium-legume symbioses (3 lecture hr)
 B. Mycorrhizal-plant symbioses (3 lecture hr)
 C. Root associated assemblages and symbioses (2 lecture hr)
 D. Phyllosphere interactions (1 lecture hr)

Part 4: Bioremediation (5 lecture hr)

A. Removal of xenobiotic compounds with focus on polyaromatic and halogenated organic materials (3 lecture hr)
 B. Removal of toxic metals and metalloids (2 lecture hr)

Exam 3 during Final Exam Week

Evaluation: All students assessed via short answer and essay exams. Three total.

Assignment Undergrad Honors Grad

3 Exams 100% 75% 60%

Lit. Discussion 0 25% 20%

Lit. Review 0 0 20%

Total 100% 100% 100%

Grading for undergraduates will use the following scale: A = 90-100%, B = 80-89.9%, C = 70-79.9%, D = 60-69.9% and F = <60%.

Grading for Graduate students will use the following scale: A = 9-100%, B = 80-89.9%, C = 70-79.9%, F = <70%.

Duplication (if applicable): Not applicable as this is an update of an existing course.

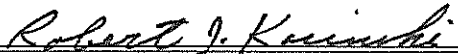
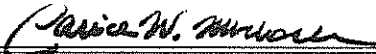
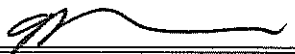
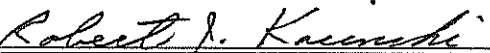
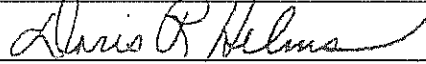


Add course requirements for honors and/or 600-level courses (if applicable): Honors Students and Graduate Students will attend supplementary class meetings to review, discuss and critique current advances in soil microbiology. Both Honors and grad students will participate in a discussion of the literature surveyed. The grade here will be based on participation (40%) and on written critiques summarizing key points of the articles (60%). Graduate students will write formal review article on topic of their choice and this will comprise 20% of the grad student's grade.

Form Originator: HKURTZ, Harry Kurtz **Date Form Created:** 2/6/2012

Form Last Updated by: , **Date Form Last Updated:** 2/24/2012

Form Number: 4864

Approval

	2/24/12		4/6/2012
Chair, Department Curriculum Committee	Date	Chair, Undergraduate Curriculum Committee	Date
	2/24/12		
Department Chair	Date	Chair, Graduate Curriculum Committee	Date
	3/8/12		6/11/12
Chair, College Curriculum Committee	Date	Provost	Date
	3/8/12		6/11/12
College Dean	Date	President	Date
Director, Calhoun Honors College	Date		



Curriculum and Course Change System - Print New Course Form

000007

Course Abbreviation & Number:

X New Undergraduate Course: MICRO- 430

.. New Honors Course: --

X New Graduate Course: MICRO- 430

Effective Term: 05/2012**Catalog Title:** Soil Microbiology Laboratory**Transcript Title:** Soil Micro Lab**Fixed Credit Course:** 1 (0,3)**Variable Credit Course:** - (-), (-)

Method of Instruction	Course Modifier	General Education Designation
.. A-Lecture Only	.. Pass/Fail Only	.. English Composition
X B-Lab (w/fee)	X Graded	.. Oral Communication
.. D-Seminar	.. Variable Title	.. Mathematics
.. E-Independent Study	.. Creative Inquiry	.. Natural Science w/Lab
.. F-Tutorial (w/fee)	.. Repeatable	.. Math or Science
.. G-Studio	maximum credits:	.. A&H (Literature)
.. H-Field course		.. A&H (Non-Literature)
.. I-Study Abroad		.. Social Science
.. L-Lab (no/fee)		.. CCA
.. N/B-Lecture/Lab(w/fee)		.. STS
.. N/L-Lecture/Lab(no fee)		

Add cross-listing with the following child course(s):

Catalog Description: An examination of the microbes residing in the soil and their effects on the soil substratum and resident plant communities. Topics include biogeochemistry, microbial isolation, microcosm development, and characterization of soil microbial communities.

Prerequisite(s): MICRO 410 or MICRO 410 concurrent or consent of instructor

Projected Enrollment:

Year 1 - 15 Year 2 - 15 Year 3 - 15 Year 4 - 15

Required course for students in: This course is an elective.

Statement of need and justification based on assessment results of student learning outcomes: The Microbiology BS has recently undergone a major revision in which lectures and laboratories were separated. This course structure allows students to attend the lecture without the added requirement of a laboratory, while still allowing students who desire in-depth training in techniques to attend laboratories. Establishing a separate MICRO 430 laboratory will allow increased enrollment in the lecture course and bring the course structure into line with the recent Microbiology curriculum revision.

While this is an elective course for Microbiology students, the course has also been taken by students from other majors within CAFLS as an elective. Traditionally, these non-Microbiology students have been graduate students, hence the request to offer this laboratory at the 600-level in addition to the requested 400-level offering.

Textbook(s): To be determined.

Learning Objectives: Students will learn the practical aspects of microbial culturing and isolation through hands-on experience with soil microbes.

Students will learn how to assess soil structure, microbial abundances, and a variety of methods to characterize the microbial communities inhabiting the soil ecosystem.

Students will conduct classical experiments documenting the effects of microbes on key plant species (i.e., Rhizobium-legume symbiosis) as well as the effects of amendments to soils. Through this, they will learn how changes in soil chemistry affect key groups of microbes and how these shifts in microbial community structure affect plant growth.

Students will learn how to design microcosms to assess specific microbial activities.

Topical Outline: The following list of topics represents a single laboratory period. Many of the listed experiments require work over several laboratory periods and the final schedule will balance the needs of continuing work with the initiation of new experimentation.

Field Sampling Techniques
Soil Structure
Enumeration of Soil Microbes
Microbe-Plant Interactions
Nitrification and Denitrification
Sulfate Reduction and Sulfur Oxidation
Isolation of Soil Cyanobacteria

Compost Dynamics
 Soil Fungi
 Bulk Analyses of Soil Microbiota
 Nucleic Acid Techniques
 Fatty Acid Methyl Ester (FAME) Techniques
 Microcosm Design
 Isolation of Xenobiotic-Degrading Bacteria

000003

Evaluation: Students will be graded on exam, their laboratory notebook, status reports on results, and a final report on the results. Status reports are formal reports based upon laboratory data that draw initial conclusions. The final report is largely a compilation of the status reports. However, this document is a single, coherent description of the work accomplished in the form of narrative results, tables and figures along with formal conclusions and discussions.

This system is designed to train these students in formal records management and dissemination of data, at least to the level of future supervisors.

Assignment Undergrad Grad
 2 exams 50% 25%
 Notebook 25% 25%
 Status Reports 15% 15%
 Final Report 10% 10%
 Formal Paper 0% 25%

Total 100% 100%

Undergraduate Grading Scale: A=90-100, B=80-89, C=70-79, D=60-69, F=less than 60

Graduate Grading Scale: A=90-100, B=80-89, C=70-79, F=less than 70

Duplication (if applicable): This course is designed to minimize any overlap with topics in the new Microbiology laboratory series. Where any overlap might occur, the techniques are expanded and specifically designed for the soil environment.

Add course requirements for honors and/or 600-level courses (if applicable): Graduate students will be required to take related experiments conducted during the course of the semester and use them to write a manuscript in the format required by the journal Applied and Environmental Microbiology. This requirement comprises 25% of the student's grade and is designed to familiarize students with the process of publishing their results in the peer-reviewed literature.

Form Originator: HKURTZ, Harry Kurtz **Date Form Created:** 2/6/2012

Form Last Updated by: , **Date Form Last Updated:** 2/24/2012

Form Number: 4866

Approval

<i>Robert J. Kocinski</i>	2/24/12	<i>Carice W. Anderson</i>	4/6/2012
Chair, Department Curriculum Committee	Date	Chair, Undergraduate Curriculum Committee	Date
<i>[Signature]</i>	2/24/12		
Department Chair	Date	Chair, Graduate Curriculum Committee	Date
<i>Robert J. Kocinski</i>	3/8/12	<i>Chris R. Helms</i>	6/11/12
Chair, College Curriculum Committee	Date	Provost	Date
<i>Deed Whitman</i>	3/8/12	<i>[Signature]</i>	6/11/12
College Dean	Date	President	Date
Director, Calhoun Honors College	Date		

MEMORANDUM

TO: College of Agriculture, Forestry & Life Sciences Curriculum Committee

FROM: Anthony L. Pometto III, Interim Dept. Chair of Food, Nutrition, & Packaging Sciences, *Anthony Pometto III*

DATE: January 26, 2012

RE: GPA requirement for all change of Majors into Food Science Program

The faculty of the Food, Nutrition, and Packaging Sciences Department recommend a new policy for admission of change of major undergraduates into the Food Science program. Beginning with the 2012 academic year, we will require that students interested in Food Science may apply to change majors into the Food Science and Technology or the Nutrition and Dietetics Concentrations with a minimum grade-point average (or ratio) of 2.00.

Robert J. Kosinski 3/8/12
 CAFLS Curriculum Committee Chair

Deed Whittemore 3/8/12
 Dean of CAFLS

Carice W. Murrain 4/6/2012

*Forwarded to
 Academic
 Council*



Curriculum and Course Change System - Print Major Form

000012

Change Major Name: Food Science - Nutrition + Dietetic Conc.

Degree: BS

Effective Catalog Year: 2013

.. Change Major Name to:

.. Change Degree to: (CHE approval required)

X Change Curriculum Requirements

(Submit or upload Curriculum map in catalog format. CHE approval required for > 18 hours of changes)

.. Change General Education Requirements

(Must also submit a General Education Checklist)

.. Add, Change or Delete Concentration(s)

(Submit or upload Curriculum map in catalog format. CHE approval required)

.. Add, Change or Delete Emphasis Area(s)

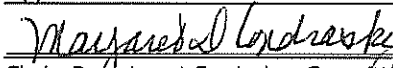
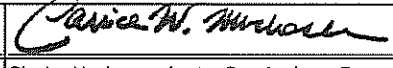
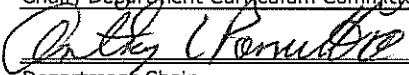
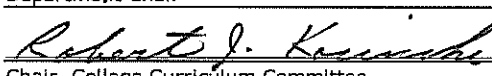
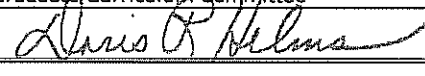
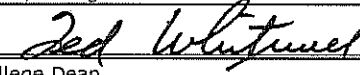

Explanation: Within the Nutrition and Dietetics Concentration change COMM 150 Intro to Hum Comm requirement to COMM 150 (3 cr) or COMM 250 Public Speaking (3cr)

Form Originator: MCONDRA, Margaret Condrasky Date Form Created: 1/23/2012

Form Last Updated by: , Date Form Last Updated: 3/8/2012

Form Number: 4826

Approval

	3/8/12		4/6/2012
Chair, Department Curriculum Committee	Date	Chair, Undergraduate Curriculum Committee	Date
	3/8/12		
Department Chair	Date	Chair, Graduate Curriculum Committee	Date
	3/8/12		6/11/12
Chair, College Curriculum Committee	Date	Provost	Date
	3/8/12		4/11/12
College Dean	Date	President	Date

000013

Proposed FOOD SCIENCE MAJOR NUTRITION and DIETETIC CONCENTRATION CURRICULUM

FRESHMAN YEAR		SOPHOMORE YEAR	
Fall Semester	Spring Semester	Fall Semester	Spring Semester
BIOL 103 General Biol I <i>and</i>	BIOL 104 General Biol II <i>and</i>	AP EC 202 Agric Economics <i>or</i>	BIOCH 305 Essen Elem Bioch
BIOL 105 General Biol Lab I <i>or</i>	BIOL 106 General Biol Lab II <i>or</i>	ECON 211 Princ of Microecon <i>or</i>	BIOCH 434 Biol Chem Techniques
BIOL 110 Principles of Biol I	BIOL 111 Principles of Biol II	ECON 212 Princ of Macroecon	EX ST 301 Introductory Statistics
CH 101 General Chemistry	CH 102 General Chemistry	CH 201 Surv Organic Chem <i>or</i>	FDSC 214 Fd Resources & Society
COMM 150 Intro to Hum Comm <i>or</i>	ENGL 103 Acc Composition	CH 223 Organic Chem <i>and</i>	FDSC 450 Creative Inquiry
COMM 250 Public Speaking	FDSC 102 Perspec Fd & Nutr Sci	CH 227 Org Chem Lab	A&H (Non-Lit) Requirement ¹
FDSC 101 Man's Food	PSYCH 201 Intro to Psychology	NUTR 216 Current Issues in Nutr	Elective
MTHSC 102 Intro to Math Ana <i>or</i>		PHYS 122 Phys w/Cal I <i>and</i>	
MTHSC 106 Calc of Var I		PHYS 124 Physics Lab I <i>or</i>	
		PHYS 200 Intro Physics <i>or</i>	
		PHYS 207 Gen Phys I <i>and</i>	
		PHYS 209 Gen Phys I Lab	
		A&H (Lit) Requirement ¹	
		<u>3</u>	<u>2</u>
		<u>15-17</u>	<u>17</u>

JUNIOR YEAR		SENIOR YEAR	
Fall Semester	Spring Semester	Fall Semester	Spring Semester
BIOSC 222 Human Ana & Phys I	BIOSC 223 Human Ana & Phys II	FDSC 306 Fd Service Operations	FDSC 402 Food Chemistry II
FDSC 301 Fd Reg and Policy	ENGL 304 Business Writing <i>or</i>	FDSC 401 Food Chemistry I	FDSC 409 Total Quality Mgt
FDSC 450 Creative Inquiry	ENGL 314 Technical Writing	FDSC 404 Fd Preserv & Proc	FDSC 450 Creative Inquiry
MICRO 305 Gen Microbiology	FDSC 403 Fd Chem & Analysis	FDSC 407 Quantity Food	NUTR 425 Med Nutr Ther II
NUTR 451 Human Nutrition	FDSC 450 Creative Inquiry	NUTR 418 Prof Dev in Dietetics <i>or</i>	NUTR 426 Community Nutr
Elective	MICRO 407 Food & Dairy Micro	NUTR 419 Prof Dev in Nutr ²	
	NUTR 455 Nutr and Metabolism	NUTR 424 Med Nutr Ther I	
		<u>4</u>	<u>3</u>
		<u>15</u>	<u>14</u>
		<u>15-17</u>	<u>17</u>

124-127 TOTAL SEMESTER HOURS

¹See General Education requirements. Three of these credit hours must also satisfy the Cross-Cultural Awareness requirement.

²NUTR 419 is recommended for students not pursuing registered dietitian (RD) status.

IMPORTANT NOTE: Undergraduate students should not wait for the SR year to register for required FR, SO, and JR courses. This action could delay your graduation date. The University may drop courses due to low enrollment or for other reasons during any semester, especially during Maymester, 1st Summer Session, and 2nd Summer Session. If you have not taken these required courses at the appropriate time as outlined in the curriculum map then you assume the risk of not being able to graduate on time.



Curriculum and Course Change System - Print Major Form

000014

Change Major Name: Food Science - *Food Science + Technology Conc.*

Degree: BS

Effective Catalog Year: 2013

.. Change Major Name to:

.. Change Degree to: (CHE approval required)

X Change Curriculum Requirements

(Submit or upload Curriculum map in catalog format. CHE approval required for > 18 hours of changes)

.. Change General Education Requirements

(Must also submit a General Education Checklist)

.. Add, Change or Delete Concentration(s)

(Submit or upload Curriculum map in catalog format. CHE approval required)

.. Add, Change or Delete Emphasis Area(s)

Explanation: Within the Food Science and Technology Concentration change COMM 150 Intro to Hum Comm requirement to COMM 150 (3 cr) or COMM 250 Public Speaking (3cr)

Form Originator: MCONDRA, Margaret Condrasky Date Form Created: 1/23/2012

Form Last Updated by: , Date Form Last Updated: 3/8/2012

Form Number: 4825

Approval

<i>Margaret A. Condrasky</i>	3/8/12	<i>Parica M. Muehle</i>	4/6/2012
Chair, Department Curriculum Committee	Date	Chair, Undergraduate Curriculum Committee	Date
<i>Chris Conrath</i>	3/8/12		
Department Chair	Date	Chair, Graduate Curriculum Committee	Date
<i>Robert J. Kasinski</i>	3/8/12	<i>David R. Helms</i>	6/11/12
Chair, College Curriculum Committee	Date	Provost	Date
<i>Bob Whitwell</i>	3/8/12	<i>John J. ...</i>	6/11/12
College Dean	Date	President	Date

000015

Proposed FOOD SCIENCE MAJOR FOOD SCIENCE and TECHNOLOGY CONCENTRATION CURRICULUM

FRESHMAN YEAR		SOPHOMORE YEAR	
Fall Semester	Spring Semester	Fall Semester	Spring Semester
BIOL 103 General Biol I <i>and</i>	BIOL 104 General Biol II <i>and</i>	CH 201 Surv Organic Chem <i>or</i>	BIOCH 305 Essen Elem Bioch
3	3	4	3
BIOL 105 General Biol Lab I <i>or</i>	BIOL 106 General Biol Lab II <i>or</i>	CH 223 Organic Chem <i>and</i>	BIOSC 434 Biol Chem Techniques
1	1	3	2
BIOL 110 Principles of Biol I	BIOL 111 Principles of Biol II	CH 227 Org Chem Lab	EX ST 301 Introductory Statistics
5	5	1	3
CH 101 General Chemistry	CH 102 General Chemistry	FDSC 450 Creative Inquiry	FDSC 214 Fd Resources & Society
4	4	1	3
COMM 150 Intro to Hum Comm <i>or</i>	ENGL 103 Acc Composition	PHYS 122 Phys w/Cal I <i>and</i>	FDSC 450 Creative Inquiry
3	3	3	1
COMM 250 Public Speaking	FDSC 102 Perspec Fd & Nutr Sci	PHYS 124 Physics Lab I <i>or</i>	A&H (Non-Lit) Requirement ¹
3	1	1	3
FDSC 101 Man's Food	FDSC 450 Creative Inquiry	PHYS 200 Intro Physics <i>or</i>	Elective
1	1	4	2
MTHSC 102 Intro to Math Ana <i>or</i>	PSYCH 201 Intro to Psychology	PHYS 207 Gen Phys I <i>and</i>	
3	3	3	17
MTHSC 106 Calc of Var I		PHYS 209 Gen Phys I Lab	
4	16-17	A&H (Lit) Requirement ¹	
15-17		Social Science Requirement ^{1,2}	
		3	
		3	
		3	
		15	
JUNIOR YEAR		SENIOR YEAR	
Fall Semester	Spring Semester	Fall Semester	Spring Semester
FDSC 301 Food Reg and Policy	ENGL 304 Business Writing <i>or</i>	FDSC 306 Fd Service Op <i>or</i>	FDSC 402 Food Chemistry II
1	3	3	3
FDSC 417 Seminar	ENGL 314 Technical Writing	FDSC 307 Restaurant Fd Serv Mgt ³	FDSC 408 Food Process Engr
1	3	3	4
FDSC 450 Creative Inquiry	FDSC 403 Fd Chem & Analysis	FDSC 401 Food Chemistry I	FDSC 409 Total Quality Mgt
1	2	3	3
MICRO 305 Gen Microbiology	FDSC 410 Food Prod Dev	FDSC 404 Fd Preserv & Proc	FDSC 450 Creative Inquiry
4	4	2	1
NUTR 451 Human Nutrition	FDSC 450 Creative Inquiry	FDSC 407 Quantity Food	Emphasis Area Requirement ⁴
3	1	1	3
Departmental Requirement ³	MICRO 407 Food & Dairy Micro	FDSC 450 Creative Inquiry	
3	4	1	14
Emphasis Area Requirement ⁴	Emphasis Area Requirement ⁴	Emphasis Area Requirement ⁴	
2	3	3	17
15		15	

124-127 TOTAL SEMESTER HOURS

¹See General Education requirements. Three of these credit hours must also satisfy the Cross-Cultural Awareness requirement.

²For students undecided on concentration area, AP EC 202, ECON 211 or 212 is recommended.

³FDSC 430 or AVS 413.

⁴See advisor.

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