1. General Information

College: Agricultur	e, Food and Environment	De	partment:	Animal and F	ood Sciences	NOV 13201
Current Major Name	: Food Science		Proposed	Major Name:	Food Science	OFFICE OF THE SENATE GOUNCIL
Current Degree Title:	Bachelor of Science in Food Science		Proposed	Degree Title:	Bachelor of Sci Science	
Formal Option(s):	<u>NA</u>	Pro	oposed Forn	nal Option(s):	<u>NA</u>	
Specialty Field w/in Formal Option:	NA	i	pposed Spec in Formal O	•	<u>NA</u>	
Date of Contact with	Associate Provost for Academic	Adm	ninistration ¹	: 2-3-2014		
Bulletin (yr & pgs):	$\frac{2014-15, p.}{108-109.}$ CIP Code ¹ :	01.1	<u>001</u>		Today's Date:	<u>8-7-2014</u>
Accrediting Agency (i	f applicable): <u>Institute of Food</u>	d Te	chnologists			
Requested Effective I	Date: Semester following	аррі	roval. (OR Sp	ecific Date ² :	
Dept. Contact Person	: Melissa Newman	Pho	ne: <u>7-5</u>	<u>881</u>	Email: mnew	man@uky.edu

2. General Education Curriculum for this Program:

The new General Education curriculum is comprised of the equivalent of 30 credit hours of course work. There are, however, some courses that exceed 3 credits & this would result in more than 30 credits in some majors.

- There is no foreign language requirement for the new Gen Ed curriculum.
- There is no General Education Electives requirement.

Please list the courses/credit hours currently used to fulfill the University Studies/General Education curriculum:
Intellectual Inquiry in Arts and Creativitychoose from approved list: 3 credits
Intellectual Inquiry in the Humanitieschoose from approved list: 3 credits
Intellectual Inquiry in the Social Scienceschoose from approved list: 3 credits
Intellectual Inquiry in the Natural, Physical and Mathematical Sciences
✓CHE 105, General College Chemistry I, 4 credits and
CHE 111, Laboratory to Accompany General Chemistry I, 1 credit
Composition and Communication I, CIS/WRD 110, Composition and Communication I, 3 credits
Composition and Communication II, CIS/WRD 111, Composition and Communication II, 3 credits
Quantitative Foundations
MA 123, Elementary Calculus and Its Applications OR
MA 113, Calculus I OR
MA 137, Calculus I With Life Science Applications, 4 credits
Statistical Inferential Reasoning
STA 210, Making Sense of Uncertainty: An Introduction to Statistical Reasoning, 3 credits
Community, Culture and Citizenship in the USAGEN 100, Issues in Agriculture, Food and Environment, 3 credits
Global Dynamicschoose from approved list: 3 credits
Total UK Core, current33 credits.

¹ Prior to filling out this form, you MUST contact the Associate Provost for Academic Administration (APAA). If you do not know the CIP code, the (APAA) can provide you with that during the contact.

² Program changes are typically made effective for the semester following approval. No program will be made effective until all approvals are

received.

General Education Area	Course	Credit Hrs
. Intellectual Inquiry (one course in each area)		
Arts and Creativity	choose from list	<u>3</u>
Humanities	choose from list	<u>3</u>
Social Sciences	choose from list	<u>3</u>
Natural/Physical/Mathematical	<u>CHE 105 & 111</u>	<u>5</u>
. Composition and Communication	14.04.19.10.19.10.19.10.19.10.19.10.19.10.19.10.19.10.19.10.19.10.19.10.19.10.19.10.19.10.19.10.19.10.19.10.1	Winds at
	CIS or WRD 110	3
Composition and Communication II	CIS or WRD 111	3
II. Quantitative Reasoning (one course in each area)	,	\$ 1 PART 10 PA
	<u>MA 123 OR MA</u>	<u>4</u>
Quantitative Foundations ³	<u>137</u>	
Statistical Inferential Reasoning	<u>STA 296</u>	<u>3</u>
/. Citizenship (one course in each area)		
Community, Culture and Citizenship in the USA	GEN 100	<u>3</u>
Global Dynamics	choose from list	<u>3</u>
Total Genera . Explain whether the proposed changes to the program (as descri	Il Education Hours	33 2) involve courses offere
Total General. Explain whether the proposed changes to the program (as description of the department/program. Routing Signature Log must include GCCR requirement will be fulfilled by WRD 203 Business We submitted to the WRD department in Fall 2014 for final revision.	Il Education Hours bed in sections 4 to 1 approval by faculty o	33 2) involve courses offere f additional department submission will be
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³ Note that MA 109 is NOT approved as a Quantitative Foundations course. Students in a major requiring calculus will use a calculus course (MA 113, 123, 137 or 138) while students not requiring calculus should take MA 111, PHI 120 or another approved course.

6. List pre-major or pre-professional course requirements that will change, including credit hours.

Current	Proposed
*Note that the current bulletin splits these into two	Note that we would prefer to simply list one
categories, as follows:	categorypremajor requirements, in the new version
	of the Bulletin.
Prerequisites for upper-division courses:	
BIO 150, Principles of Biology I, 3 credits	BIO 148, Principles of Biology I, 3 credits
BIO 152, Principles of Biology II, 3 credits	BIO 152, Principles of Biology II, 3 credits
CHE 105, General College Chemistry I, 4 credits	
CHE 107, General College Chemistry II, 3 credits	ECO 201, Principles of Economics I, 3 credits
CHE 111, Laboratory to Accompany General	
Chemistry I, 1 credit	BIO 208, Principles of Microbiology, 3 credits
CHE 113, Laboratory to Accompany General	
Chemistry II, 2 credits	BIO 209, Introductory Microbiology Laboratory, 2
MA 123, Elementary Calculus and Its Applications OR	<u>credits</u>
MA 113, Calculus I OR	CHE 105, General College Chemistry I, 4 credits
MA 137, Calculus I With Life Science Applications, 4	CHE 107, General College Chemistry II, 3 credits
credits	CHE 111, Laboratory to Accompany General
Total prerequisite hours20 credits	Chemistry I, 1 credit
	CHE 113, Laboratory to Accompany General
Premajor Requirements:	Chemistry II, 2 credits
*MA 132, Calculus for the Life Sciences, 3 credits	CHE 236, Survey of Organic Chemistry, 3 credits
BIO 208, Principles of Microbiology, 3 credits	$\frac{OR}{A}$
BIO 209, Introductory Microbiology Laboratory, 2	<u>CHE 230, Organic Chemistry I, 3 credits</u>
credits	DIDIOIA I A A A A A A A A A A A A A A A A A
CHE 236, Survey of Organic Chemistry, 3 credits	DHN 212, Introductory Nutrition, 3 credits
DHN 212, Introductory Nutrition, 3 credits	
PHY 211, General Physics, 5 credits	MA 123, Elementary Calculus and Its Applications, 4
STA 291, Statistical Methods, 3 credits	credits AND
Total premajor hours22 credits	MA 162, Finite Mathematics and Its Applications, 3
*Students who take MA 112 on MA 127 do not need to	credits, (total of 7 credits) OR
*Students who take MA 113 or MA 137 do not need to take MA 132	MA 110 Alcohus and Tuisonomater, for Calculus A
take WA 132	MA 110, Algebra and Trigonometry for Calculus, 4 credits AND
	MA 137, Calculus I With Life Science Applications, 4
	credits (total of 8 credits).
	STA 296, Statistical Methods and Motivations, 3
	credits
	OT OMED
	Total premajor hours40-41 credits

7. List the major's course requirements that will change, including credit hours.

Current	Proposed
FSC 107, Introduction to Food Science, 3 credits	FSC 107, Introduction to Food Science, 3 credits
AEN 340, Principles of Food Engineering, 4 credits	FSC 306, Introduction to Food Processing, 4 credits
DHN 311 Nutritional Biochemistry, 3 credits OR	FSC 395 Special Problem in Food Science, 3 credits
BCH 401G, Fundamentals of Biochemistry, 3 credits	OR FSC 399 Experiential Learning in Animal
	Sciences/Food Science, 3 credits
FSC 306, Introduction to Food Processing, 4 credits	OR EXP 396 Experiential Education, 3-6 credits
FSC 434G, Food Chemistry, 4 credits	
FSC 530, Food Microbiology, 5 credits	FSC 434G, Food Chemistry, 4 credits

FSC 536, Advanced Food Technology, 4 credits	FSC 530, Food Microbiology, 5 credits FSC 535, Food Analysis, 4 credits
Total major hours, 31 credits	FSC 536, Advanced Food Technology, 4 credits
	Students must select at least 3 of the following 4
	courses:
	FSC 304, Animal Food Products, 4 credits
	ESC 430, Sensory Evaluation, 3 credits
	ESC 538, Food Fermentation and Thermal
	Processing, 4 credits
	ESC 540, Food Sanitation, 4 credits
	Total major hours, 38-42 credits
the pgm <u>require</u> a minor AND does the proposed <u>char</u>	nge affect the required minor? N/A Yes N
es," indicate current courses and proposed changes be	
Current	Proposed
no minor is currently required	no minor is proposed to be required
	Proposed
pecialties, if any.	
Current	Proposed
no options exist currently	no options are proposed
related field?	☐ Yes 🔀
related field? , indicate current courses and proposed changes below.	☐ Yes 🔀 I
es the change affect pgm requirements for number of a related field?	☐ Yes 🏻
e related field? In indicate current courses and proposed changes below. Current Es the change affect pgm requirements for technical proposed changes below. Current Current	Proposed or professional support electives?
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es the change affect pgm requirements for technical of indicate current courses and proposed changes below. Current Es the change affect pgm requirements for technical of indicate current courses and proposed changes below. Current On the current descriptions of this program, these courses are described as "Specialty Support." Students must select 22 credits from the following suggested list of support courses: AEC 305, Food and Agricultural Marketing Principles, 3 credits ABT/ENT 360, Genetics, 3 credits CS 101, Introduction to Computing I, 3 credits ECO 201, Principles of Economics I, 3 credits ECO 395, Special Problem in Food Science, 1-4 credits FSC 395, Special Problem in Food Science, 1-4 credits FSC 399, Experiential Learning in Animal	Proposed Proposed In the new version of this program, we would like to describe the courses below as "Specialty Support." AEN 340, Principles of Food Engineering, 4 credits DHN 311 Nutrional Biochemistry, 3 credits OR BCH 401G, Fundamentals of Biochemistry, 3 credits PHY 211, General Physics, 5 credits Students must select 2 of the following 3 courses: AEC 305, Food and Agricultural Marketing Principles, 3 credits ASC 300, Meat Science, 4 credits CLD 230, Intrapersonal Leadership, 3 credits OF

Processing, 4 credits	Total Specialty Support hours18-19 credits.
FSC 540, Food Sanitation, 3 credits	
DHN 340, Experimental Foods, 3 credits.	
Total, special support hours22 credits.	

12. Does the change affect a minimum number of free credit hours or support electives?	🛛 Yes 🛚
If "Yes," indicate current courses and proposed changes below.	0

Current	Proposed
minimum of 15 free elective credits	3 free elective credits

13. Summary of changes in required credit hours:

			Current	Proposed
а.	Credit Hours of Premajor or Preprofession	onal Courses:	<u>39-42</u>	<u>40-41</u>
b.	Credit Hours of Major's Requirements:	-	31	<u> 38-42</u>
c.	Credit Hours for Required Minor:		<u>NA</u>	<u>NA</u>
d.	Credit Hours Needed for a Specific Option	on:	<u>NA</u>	<u>NA</u>
e.	Credit Hours Outside of Major Subject in	Related Field:	<u>NA</u>	<u>NA</u>
f.	Credit Hours in Technical or Professional	l Support Electives:	22	<u>18-19</u>
g.	Minimum Credit Hours of Free/Supporti	ve Electives:	15	<u>3</u>
h.	Total Credit Hours Required by Level:	100:	<u>47</u>	<u>32</u>
		200:	<u>28</u>	<u>19</u>
		300:	<u>20</u>	<u>14</u>
		400-500:	<u>25</u>	<u>21</u>
j,	Total Credit Hours Required for Graduat	ion:	<u>128</u>	<u>120</u>

14. Rationale for Change(s) – if rationale involves accreditation requirements, please include specific references to that.

The Food Science BS program is accredited by the Institute of Food Technologists (IFT). Therefore, any curricular changes must maintain the integrity of the program with respect to requirements of the accreditor; the modifications listed herein accomplish that primary objective. Other program updates include modifications in the both areas of the quantitative reasoning category of UK Core: MA 113 is dropped as an option for quantitative foundations and STA 296 replaces STA 210 for statistical inferential reasoning (SIR). In the past, Food Science students had to take both STA 210 and STA 291; now, since STA 296 can satisfy SIR and provide training in statistical methods, the faculty have decided to switch to that single course. With the advent of the Graduation Composition and Communications Requirement (GCCR), the Food Science faculty have chosen to meet that requirement using WRD 203 Business Writing, documentation pending. The presentation of pre-major courses has been clarified as a single grouping of courses, with updates in ECO, BIO, CHE, MA, and STA requirements. Note that PHY 211 has been moved to the Specialty Support category, and ECO 201 has moved to the pre-major category. Significant changes have been implemented in the major course listing; the proposed listing will be exclusively FSC courses. Seven credits from the major (AEN 340, 4 credits; and either DHN 311 or BCH 401G, 3 credits) are to be moved to Specialty Support, which are understood to be required courses per FSC faculty. Under the previous program, the Specialty Support category included numerous FSC courses. In the College of Agriculture, Food and Environment, specialty support courses are not allowed to include major courses. The new Specialty Support category no longer includes any FSC courses. Our Total Credit Hours Required to Graduate has changed from 128 to 120

due to the numerous changes in courses. CHE 105/111, MA 123 or 137 and STA 296 in our premajor course section also satisfies various UK Core requirements. While the courses are repeated in the section listings and their hours are reflected in the section totals, they have only been counted once in the Total Credit Hours to Graduate section.

15. List below the typical semester by semester program for the major. If multiple options are available, attach a separate sheet for each option.

YEAR 1 – FALL: (e.g. "BIO 103; 3 credits")	UK CORE, A&C 3 credits CHE 105; 4 credits CHE 111; 1 credit WRD 110; 3 credits GEN 100; 3 credits Semester total; 14 credits.	YEAR 1 – SPRING:	CHE 107; 3 credits CHE 113; 2 credits WRD 111; 3 credits MA 110 or 123; 4 credits FSC 107; 3 credits DHN 212; 3 credits Semester total; 18 credits
YEAR 2 - FALL : YEAR 3 - FALL:	CHE 236; 3 credits BIO 148; 3 credits ECO 201; 3 credits WRD 203; 3 credits MA 137 or 162; 3-4 credits Semster total; 15-16 credits AEN 340; 4 credits	YEAR 2 – SPRING: YEAR 3 - SPRING:	BIO 152; 3 credits PHY 211; 5 credits STA 296; 3 credits FSC 304; 4 credits BCH 401G: 3 credits Semester total; 18 credits UK CORE, Soc Sci; 3 credits
VCAD 4 FALL	FSC 306; 4 credits FSC 430; 3 credits ASC 300; 4 credits Semester total; 15 credits	VEAD 4 CDDING.	FSC 434G; 4 credits BIO 208; 3 credits BIO 209; 2 credits Free elective; 3 hours Semester total; 15 credits
YEAR 4 - FALL:	FSC 399; 3 credits FSC 530; 5 credits FSC 535; 4 credits AEC 305; 3 credits Semester total; 15 credits	YEAR 4 - SPRING:	UK CORE, Hum.; 3 credit UK CORE, Glo Dyn; 3 credits FSC 536; 4 credits FSC 538; 4 credits Semester total; 14 credits

Signature Routing Log

General Information:

Current Degree Title and Major Name:

Bachelor of Science in Food Science; Major--Food Science

Proposal Contact Person Name:

Melissa Newman

Phone: <u>7-5881</u>

Email:

mnewman@uky.edu

INSTRUCTIONS:

Identify the groups or individuals reviewing the proposal; note the date of approval; offer a contact person for each entry; and obtain signature of person authorized to report approval.

Internal College Approvals and Course Cross-listing Approvals:

Reviewing Group Date Approved		Contact Person (name/phone/email)	Signature
Food Science Faculty	8/7/14	Melissa Newman / 7-5881 / mnewman@uky.edu	
Animal and Food Sciences Department	8/14/14	Bob Harmon / 7-2686 / rharmon@uky.edu	
Undergraduate Curriculum Committee, College of Agriculture, Food and Environment	8/29/14	Larry J. Grabau / 7-3469 / Larry.Grabau@uky.edu	
		/ /	
		/ /	307

External-to-College Approvals:

Council	Date Approved	Signature	Approval of Revision ⁴	
Undergraduate Council	11/11/14	Joanie Ett-Mims		
Graduate Council				
Health Care Colleges Council				
Senate Council Approval		University Senate Approval		

Comments:	 		

⁴ Councils use this space to indicate approval of revisions made subsequent to that council's approval, if deemed necessary by the revising council.