CHANGE UNDERGRADUATE PROGRAM FORM

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1. General Information

College: Agriculture, Food and Environment | Department: Animal and Food Sciences

Current Major Name:	Food Science	*Proposed Major Name:*	*Food Science*
Current Degree Title:	Bachelor of Science in Food Science	*Proposed Degree Title:*	*Bachelor of Science in Food Science*
Formal Option(s):	N/A	*Proposed Formal Option(s):*	*N/A*
Specialty Field w/in Formal Option:	N/A	*Proposed Specialty Field w/in Formal Options:*	*N/A*

Date of Contact with Associate Provost for Academic Administration[1]: 3-4-2015

Bulletin (yr & pgs): 2015-16, p. 108-109. | CIP Code[1]: 01.1001 | Today's Date: 3-9-2015

Accrediting Agency (if applicable): Institute of Food Technologists

Requested Effective Date: ☒ Semester following approval. OR ☐ Specific Date[2]: _____

Dept. Contact Person: Melissa Newman | Phone: 7-5881 | Email: mnewman@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 Creativity--choose from approved list: 3 credits
Intellectual Inquiry in the Humanities--choose from approved list: 3 credits
Intellectual Inquiry in the Social Sciences--choose 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 137, Calculus I With Life Science Applications, 4 credits
Statistical Inferential Reasoning--
STA 296, Statistical Methods and Motivations, 3 credits
Community, Culture and Citizenship in the USA--GEN 100, Issues in Agriculture, Food and Environment, 3 credits
Global Dynamics--choose from approved list: 3 credits
Total UK Core, current--33 credits.

Please identify below the suggested courses/credit hours to fulfill the General Education curriculum.

[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
I. Intellectual Inquiry (one course in each area)			
Arts and Creativity		*choose from list*	*3*
Humanities		*choose from list*	*3*
Social Sciences		*choose from list*	*3*
Natural/Physical/Mathematical		*CHE 105 &111*	*5*
II. Composition and Communication			
Composition and Communication I		CIS or WRD 110	3
Composition and Communication II		CIS or WRD 111	3
III. Quantitative Reasoning (one course in each area)			
Quantitative Foundations[3]		*MA 113 OR MA 123 OR MA 137*	*4*
Statistical Inferential Reasoning		*STA 296*	*3*
IV. Citizenship (one course in each area)			
Community, Culture and Citizenship in the USA		*GEN 100*	*3*
Global Dynamics		*choose from list*	*3*
		Total General Education Hours	*33*

3. Explain whether the proposed changes to the program (as described in sections 4 to 12) involve courses offered by another department/program. Routing Signature Log must include approval by faculty of additional department(s).

The proposed change involves courses offered by the Mathematics department. Our most recent curriculum change expanded our Mathematics requirements from "MA 123 OR MA 113 OR 137" to "MA 123 AND MA 162 OR MA 110 AND MA 137". We propose a return to our original curriculum requirement, "MA 123 OR MA 113 OR MA 137".

4. Explain how satisfaction of the University Graduation Writing Requirement will be changed.

Current		*Proposed*	
☐ Standard University course offering. List: _____		☐ *Standard University course offering. List: _____*	
☒ Specific course – list:	WRD-203, Business Writing	☐ *Specific course) – list:*	_____

5. List any changes to college-level requirements that must be satisfied.

Current	*Proposed*
☒ Standard college requirement. List: GEN 100, Issues in Agriculture, Food and Environment, 3 credits	☒ *Standard college requirement. List: GEN 100, Issues in Agriculture, Food and Environment, 3 credits*
☐ Specific required course – list: _____	☐ *Specific course – list:* _____

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

[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.

Current	*Proposed*
MA 123, Elementary Calculus and Its Applications, 4 credits AND MA 162, Finite Mathematics and Its Applications, 3 credits (total of 7 credits) OR MA 110, Algebra and Trigonometry for Calculus, 4 credits AND MA 137, Calculus I with Life Science Applications, 4 credits (total of 8 credits). Total premajor hours---40-41 credits	*MA 123, Elementary Calculus and Its Applications, 4 credits OR* *MA 113, Calculus I, 4 credits OR* *MA 137, Calculus I with Life Science Applications, 4 credits (total of 4 credits).* *Total Premajor hours---37 credits*

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

Current	*Proposed*
_____	*No other changes are proposed*

8. Does the pgm require a minor AND does the proposed change affect the required minor? ☐ N/A ☐ Yes ☒ No

If "Yes," indicate current courses and proposed changes below.

Current	*Proposed*
No minor is currently required	*No minor is proposed to be required*

9. Does the proposed change affect any option(s)? ☐ N/A ☐ Yes ☒ No

If "Yes," indicate current courses and proposed changes below, including credit hours, and also specialties and subspecialties, if any.

Current	*Proposed*
No options currently exist	*No options are proposed*

10. Does the change affect pgm requirements for number of credit hrs outside the major subject in a related field? ☐ Yes ☒ No

If so, indicate current courses and proposed changes below.

Current	*Proposed*
_____	_____

11. Does the change affect pgm requirements for technical or professional support electives? ☐ Yes ☒ No

If so, indicate current courses and proposed changes below.

Current	*Proposed*
_____	*No other changes are proposed*

12. Does the change affect a minimum number of free credit hours or support electives? ☒ Yes ☐ No

If "Yes," indicate current courses and proposed changes below.

Current	*Proposed*
3 free elective credits	*6 free elective credits*

13. Summary of changes in required credit hours:

	Current	*Proposed*
a. Credit Hours of Premajor or Preprofessional Courses:	40-41	*37*
b. Credit Hours of Major's Requirements:	38-42	*38-42*

c. Credit Hours for Required Minor:		NA	*NA*
d. Credit Hours Needed for a Specific Option:		NA	*NA*
e. Credit Hours Outside of Major Subject in Related Field:		NA	*NA*
f. Credit Hours in Technical or Professional Support Electives:		18-19	*18-19*
g. Minimum Credit Hours of Free/Supportive Electives:		3	*6*
h. Total Credit Hours Required by Level:	100:	32	*32*
	200:	19	*19*
	300:	14	*14*
	400-500:	21	*21*
i. Total Credit Hours Required for Graduation:		120	*120*

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

The Food Science BS program curriculum requirements have been recently updated, effective Fall 2015. These changes included expanding our Mathematics requirements to include MA 162 and MA 110 per faculty recommendations. MA 110 is a prerequisite for MA 137, while MA 162 was a preferred supplemental course for our Food Science classes.
These changes have already proved difficult for students able to test into MA 137 due to ACT or ALEKS scores, where they are able to pass over the MA 110 prerequisite. Our recently revised curriculum will require frequent course sustitutions for missed credit hours, or for those students to take MA 110 instead of registering for MA 137.
Our accredited organization, the Institute of Food Technologists (IFT) requires a minimum of 1 calculus class with 4 credits.

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* *FSC 107; 3 credits* *DHN 212; 3 credits* *Semester total; 14 credits*
YEAR 2 - FALL :	CHE 236; 3 credits BIO 148; 3 credits ECO 201; 3 credits WRD 203; 3 credits MA 123 or MA 113 or MA 137; 4 credits Semester total; 16 credits	**YEAR 2 – 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*
YEAR 3 - FALL:	AEN 340; 4 credits FSC 306; 4 credits FSC 430; 3 credits ASC 300; 4 credits Semester total; 15 credits	**YEAR 3 - SPRING:**	*UK CORE, Soc Sci; 3 credits* *FSC 434G; 4 credits* *BIO 208; 3 credits* *BIO 209; 2 credits* *Free elective; 3 credits* *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 hours	**YEAR 4 - SPRING:**	*UK CORE, Hum; 3 credits* *UK CORE, Glo Dyn; 3 credits* *Free elective; 3 credits* *FSC 536; 4 credits* *FSC 538; 4 credits* *Semester total; 18 credits*

CHANGE UNDERGRADUATE PROGRAM FORM

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: 7-5881 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	3-9-2015	Melissa Newman / 7-5881 / mnewman@uky.edu	
Animal and Food Sciences Department	3-13-2015	Richard Coffey / 270-365-7541x224 / rcoffey@uky.edu	
Undergraduate Curriculum Committee, College of Agriculture, Food and Environment	3-27-2015	Larry J. Grabau / 7-3469 / larry.grabau@uky.edu	
		/ /	
		/ /	

External-to-College Approvals:

Council	Date Approved	Signature	Approval of Revision[4]
Undergraduate Council	4/13/15	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.