# UNIVERSITY FACULTY SENATE FORMS

### **Academic Program Approval**

This form is a routing document for the approval of new and revised academic programs. Proposing department should complete this form. For more information, call the Faculty Senate Office at 831-2921.

phone number: 1318 Submitted by: Steven E. Hastings Department: Applied Economics and Statistics (APEC) email address: hastings@udel.edu Action: Revise the MATH Requirements of the Food and Agribusiness Management Major Effective term: 14F Current degree: BS Proposed change leads to the degree of: BS Proposed name: No Change **Revising or Deleting:** Undergraduate major / Concentration: Food and Agribusiness Marketing and Management - BS Undergraduate minor: (Example: African Studies, Business Administration, English, Leadership, etc.) Graduate Program Policy statement change: (Must attach your Graduate Program Policy Statement) **Graduate Program of Study:** (Example: Animal Science: MS Animal Science: PHD Economics: MA Economics: PHD)

List new courses required for the new or revised curriculum. How do they support the overall program objectives of the major/minor/concentrations)?

(Be aware that approval of the curriculum is dependent upon these courses successfully passing through the Course Challenge list. If there are no new courses enter "None")

No new courses required.

Graduate minor / concentration:

Supply support letter from the Library, Dean, and/or Department Chair if needed (all new majors/minors will need a support letter from the appropriate administrator.)

NA

Supply a resolution for all new majors/programs; name changes of colleges, departments,

degrees; transfer of departments from one college to another; creation of new departments; requests for permanent status. See example of resolutions.

#### NA

Explain, when appropriate, how this new/revised curriculum supports the 10 goals of undergraduate education: http://www.ugs.udel.edu/gened/

Goal # 1 - Attain effective skills in (a) oral and (b) written communication, (c) quantitative reasoning, and (d) the use of information technology is supported by enhancing the math requirements in this major.

Identify other units affected by the proposed changes:

(Attach permission from the affected units. If no other unit is affected, enter "None")

Approval from the MATH Department has been requested – awaiting a response.

Describe the rationale for the proposed program change(s):

(Explain your reasons for creating, revising, or deleting the curriculum or program.)

We are revising the MATH requirement from MATH 115 and APEC 240 to MATH 221 to be consistent with similar agribusiness majors at comparable institutions. Comparable institutions require a calculus course of its majors. We have been using MATH 115 and APEC 240 (applied calculus), but APEC 240 will no longer be offered.

**Program Requirements:** 

(Show the new or revised curriculum as it should appear in the Course Catalog. If this is a revision, be sure to indicate the changes being made to the current curriculum and include a side-by-side comparison of the credit distribution before and after the proposed change.)

Λ

See Attached.

Revised 10/23/2007 /khs

ROUTING AND AUTHORIZATION: (Please do not remove support	orting documentation.)
Department Champerson	Date 1/8/14
Dean of College Kim Jackson	_Date
Chairperson, College Curriculum Committee Doord Frey	Date 1814
Chairperson, Senate Com. on UG or GR Studies	_Date
Chairperson, Senate Coordinating Com	_Date
Secretary, Faculty Senate	_Date
Date of Senate Resolution	_Date to be Effective
RegistrarProgram Code	_Date
Vice Provost for Academic Affairs & International Programs	_Date
Provost	Date
Board of Trustee Notification	

### **DEGREE: BACHELOR OF SCIENCE**

MAJOR: FOOD AND AGRIBUSINESS MARKETING AND MANAGEMENT

#### MAJOR REQUIREMENTS

**Physical Sciences** Minimum of eight credits of lab science selected from Chemistry, Physics, Geology, or Physical Science.

### Professional Studies

Pre-Calculus or higher level (MATH 221*,			
<b>MATH 115</b>	MATH 230, and MATH 201 are strongly	3	
-recommended)			
ACCT 207/ACCT 208	Accounting I and II	6	
COMM 212	Oral Communication in Business	3	
ENGL 312	Written Communications in Business	3	
ECON 151	Introduction to Microeconomics:Prices and Markets	3	
ECON 152	Introduction to Macroeconomics:National Economy	3	
BUAD 301	Introduction to Marketing	3	
Two additional	courses offered by the College of Business and e 300 or 400 level	6	
One foreign lang		3-4	
APEC 135	Introduction to Data Analysis	3	
APEC 150	Economics of Agriculture and Natural	3	
	Resources	3	
<u>APEC 212</u>	Food Retailing and Consumer Behavior	3	
APEC 240	Quantitative Methods in Agricultural	3	
APEC 305	Management and Leadership Development	3	
APEC 316	Economics of Biotechnology and New Technologies	3	
APEC 345	Strategic Selling and Buyer Communication	3	
APEC 404	Food and Fiber Marketing	3	
APEC 404 APEC 408	Research Methods I	3	
APEC 409	Research Methods II	3	
APEC 410	International Agricultural Trade and	3	
<u>APEC 430</u>	Marketing Establishing and Managing a Food and Agribusiness Enterprise	3	

A maximum of three credits of Independent Study in Applied Economics and Statistics and a maximum of six credits of Independent Study in all areas, including Applied Economics and Statistics, may be counted toward a degree.

\*MATH 221 or higher (with a minimum grade of C+) can be used as a substitute course for MATH 115 and APEC 240.

#### **ELECTIVES**

After required courses are completed, sufficient credits must be taken to meet the minimum credits required for the degree. Only four credits of BHAN 120 activity or four credits of performing Music credit may be counted toward the degree.

Suggested Food and Agribusiness Management Electives:

Suggested rood	and Agribusiness Management Elever, of
APEC 335	Advanced Data Management
APEC 427	Agribusiness Financial Management
APEC 464	Agribusiness Internship
<b>APEC 471</b>	Futures and Options Markets

Suggested Resource Management Electives:

APEC 406	Agriculture and Natural Resource Policy
APEC 424	Resource Economics
APEC 429	Community Economic Development
APEC 444	<b>Economics of Environmental Management</b>
<u>APEC 480</u>	Geographic Information Systems in Natural Resource Management

Suggested Communications and Writing Electives:

**ENGL 301 Expository Writing** Technical Writing **ENGL 410** 

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MAJOR: FOOD AND AGRIBUSINESS MARKETING AND MANAGEMENT

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ECON 152	Introduction to Macroeconomics:National Economy	3
BUAD 301	Introduction to Marketing	3
Two additional courses offered by the College of Business and		6
Economics at the 300 or 400 level		3-4
One foreign lang		3
<u>APEC 135</u>	Introduction to Data Analysis	3
<u>APEC 150</u>	Economics of Agriculture and Natural Resources	3
APEC 212	Food Retailing and Consumer Behavior	3
APEC 305	Management and Leadership Development	3
APEC 316	Economics of Biotechnology and New Technologies	3
APEC 345	Strategic Selling and Buyer Communication	3
APEC 404	Food and Fiber Marketing	3 3
	Research Methods I	3
APEC 408	Research Methods II	3
<u>APEC 409</u>		
APEC 410	International Agricultural Trade and Marketing	3
APEC 430	Establishing and Managing a Food and Agribusiness Enterprise	3

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APEC 424	Resource Economics
APEC 429	Community Economic Development
APEC 444	<b>Economics of Environmental Management</b>
APEC 480	Geographic Information Systems in Natural Resource Management
Suggested Cor	mmunications and Writing Electives:
ENGL 301	Expository Writing
<b>ENGL 410</b>	Technical Writing

CREDITS TO TOTAL A MINIMUM OF

## Hastings, Steven E

From:

Hastings, Steven E

Sent:

Monday, January 06, 2014 2:55 PM

To:

pelesko@math.udel.edu

Cc:

Awokuse, Titus O; Hastings, Steven E

Subject:

Changing Math Requirement

Dr. Pelesko – APEC is proposing to change the required math course in our Food and Agribusiness Management and Marketing major from MATH 115 to MATH 221 beginning in Fall 2014. We have about 50 FABM majors so the additional load to MATH 221 would be approximately 12 – 13 students each year. Based on their Math Placement Exam, many of these student would no longer take MATH 115; some would need it to prepare for MATH 221.

Please indicate you approval (or not) for the additional students in MATH 221, so I can forward our proposal through the Faculty Senate process.

Thanks and Happy New Year!

Steve

Steven E. Hastings, Ph.D.
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Chair, UD Undergraduate Studies Committee
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Newark, DE 19716

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