

UNIVERSITY FACULTY SENATE FORMS

Academic Program Approval

REVISED · UG503A3-
23

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.

Submitted by: **Steven E. Hastings**

phone number: **1318**

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)

Graduate minor / concentration: _____

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.

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 is attached.

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 or MATH 241 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.)

See Attached.

ROUTING AND AUTHORIZATION:

(Please do not remove supporting documentation.)

Department Chairperson _____	Date _____
Dean of College _____	Date _____
Chairperson, College Curriculum Committee _____	Date _____
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 _____
Registrar _____	Program Code _____ Date _____
Vice Provost for Academic Affairs & International Programs _____	Date _____
Provost _____	Date _____
Board of Trustee Notification _____	Date _____

DEGREE: BACHELOR OF SCIENCE
MAJOR: FOOD AND AGRIBUSINESS MARKETING AND
MANAGEMENT

MAJOR REQUIREMENTS

Physical Sciences 8
 Minimum of eight credits of lab science selected from Chemistry, Physics, Geology, or Physical Science.

Professional Studies

MATH 115	Pre-Calculus or higher level (MATH 221* , MATH 230 , and MATH 201 are strongly recommended)	3
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 Economics at the 300 or 400 level	6
	One foreign language course	3-4
APEC 135	Introduction to Data Analysis	3
APEC 150	Economics of Agriculture and Natural Resources	3
APEC 212	Food Retailing and Consumer Behavior	3
APEC 240	Quantitative Methods in Agricultural Economics	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 408	Research Methods I	3
APEC 409	Research Methods II	3
APEC 410	International Agricultural Trade and Marketing	3
APEC 430	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:

APEC 335	Advanced Data Management
APEC 427	Agribusiness Financial Management
APEC 464	Agribusiness Internship
APEC 471	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	Economics of Environmental Management
APEC 480	Geographic Information Systems in Natural Resource Management

Suggested Communications and Writing Electives:

ENGL 301	Expository Writing
ENGL 410	Technical Writing

CREDITS TO TOTAL A MINIMUM OF

124

DEGREE: BACHELOR OF SCIENCE
MAJOR: FOOD AND AGRIBUSINESS MARKETING AND
MANAGEMENT

MAJOR REQUIREMENTS

Physical Sciences 8
 Minimum of eight credits of lab science selected from Chemistry, Physics, Geology, or Physical Science.

Professional Studies

MATH 221 or MATH 241	Calculus I or Analytic Geometry and Calculus A	3-4
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
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Hastings, Steven E

From: John A. Pelesko <pelesko@math.udel.edu>
Sent: Wednesday, January 15, 2014 9:14 PM
To: Hastings, Steven E
Cc: Schleiniger, Gilberto
Subject: Re: Fwd: Request ASAP

Hi Steve,

Yes, we certainly approve and are happy to support this. Just FYI - the AP credit requirements are changing. Starting with this admissions cycle, students will need an AP score of 5 to get credit for Math 241. Please let us know if you need anything else.

Best,

John

On 1/15/2014 6:09 PM, Schleiniger, Gilberto wrote:

Begin forwarded message:

From: Diane McMahon <dianemc@math.udel.edu>
Subject: Fwd: Request ASAP
Date: January 15, 2014 at 4:22:00 PM EST
To: Gilberto Schleiniger <schleini@math.udel.edu>

Dr. Schleiniger,

I believe this would be for you (or Rossi).

Diane McMahon

*Administrative Assistant II
Mathematical Sciences
University of Delaware
dianemc@udel.edu*

----- Original Message -----

Subject: Request

Date: Wed, 15 Jan 2014 21:19:07 +0000

From: Hastings, Steven E <hastings@udel.edu>

To: dianemc@math.udel.edu <dianemc@math.udel.edu>

CC: Helsel, Karren Ann <karren@udel.edu>

Diane – Naomi Nash says you can route this request to the appropriate person in the MATH Department. Thanks!

APEC is proposing to change the required math course in our Food and Agribusiness Management and Marketing major from MATH 115 to MATH 221 or MATH 241 beginning in Fall 2014. We have about 50 FABM majors so the additional load to MATH 221 or MATH 241 would be approximately 12 – 13 students each year. Some of our students will receive AP credit for MATH 241 so will net need either course.

Please indicate your approval (or not) for the additional students in MATH 221 or MATH 241, so I can forward our proposal through the Faculty Senate process.

Thanks and Happy New Year!

Steve Hastings

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