October 18, 2016

Dear Undergraduate Council,

On behalf of the faculty of the College of Arts and Sciences, the Education Policy Committee discussed and approved the Mathematical Economics Undergraduate program change proposal 9:0:0 on Tuesday, October 6, 2015.

Sincerely,

Christia Brown

Chair, Education Policy Committee

# Summary of Proposed Course Changes Mathematical Economics

#### September 12, 2016

Course changes for the Mathematical Economics Program are proposed primarily in response to changes in courses that are offered by the Mathematics, Statistics, and Economics Departments, and by changes in University graduation requirements. A summary of the proposed changes is provided below. More complete rationale for the changes is provided in section 14 of the undergraduate program form. The proposed changes will have no impact on the number of hours required for graduation.

- MA113/MA114 replaced by MA113/MA114 or MA137/MA138: The courses are very similar and Mathematics is making the same change for Mathematics majors.
- 2. ECO491 (Econometrics) will now be required. It is required in order to satisfy the Graduation Writing Requirement.
- 3. MA/STA320 replaced by MA/STA320 or STA524: The course are very similar (the Bulletin course descriptions are almost identical). Some students needlessly take both because of the current two course sequence requirement (see proposed change below).
- 4. MA471 and MA472 or MA416 and MA417 or STA524 and STA525 is replaced by MA416, MA417, and STA525 or MA471, MA472, and MA417.

This change is linked to the change (3) above. MA417 (Decision Making Under Uncertainty) is a fundamental tool in eco-nomic decision making, and all MAEC majors should be exposed to the basicideas of this topic. Students who had selected the MA471/MA472 option had no exposure to mathematical modeling, and this gap will now be filled.

PLEASE NOTE: To ensure that a series of changes to an existing degree program does not essentially create a new program, the Southern Association for the Accreditation of Colleges and Schools (SACS) requires submission of its Substantive Change Checklist for every program change. Prior to college-level review, you must fill out and submit the SACS Substantive Change Checklist to the Office of Institutional Effectiveness. Contact Institutional Effectiveness (institutionaleffectiveness@uky.edu) for assistance.

Once approved at the college level, your college will send the proposal to the appropriate Senate academic council (HCCC and/or UC) for review and approval. Once approved at the academic council level, the academic council will send your proposal to the Senate Council office for additional review and then a 10-day posting online, during which senators review on their own and have an option to register an objection if they so desire. If no objection is raised to the Senate Council Office within ten days of the posting the proposal, then the program change is approved. The Senate Council Office will report approvals to the Provost, Registrar and other appropriate entities, including the contact person.

For every proposed change, you MUST also include the existing requirement. **SUMMARY OF CHANGES** Check all that apply. Total required credit hours Student learning outcomes Program name X Courses ₩ Criteria for admissions/progression/termination Certificate assessment 1. General Information Date of contact with Institutional Effectiveness (IE)1: 1a Appended to the end of this form is a PDF of the reply from Institutional Effectiveness. Department<sup>2</sup>: **Mathematical Economics Program** College<sup>2</sup>: Arts and Sciences 1b 10/17/2016 Today's Date: CIP code<sup>3</sup>: 27.0305 1c Current major name: Proposed major name: Mathematical Economics 1d (Biology, Design, etc.) **Current Degree** Proposed degree: same BA, BS 1e (BA, BFA, etc.): No 🖂 Will there be any changes regarding a track(s) for the program? 1f Accrediting agency, if applicable: 1g 3/2015 Date of most recent periodic program review for this degree: 1h Specific Date4: Fall 20 Fall semester following approval. OR Requested effective date: 1i

<sup>&</sup>lt;sup>1</sup> Prior to college-level review, you must fill out and submit the SACS Substantive Change Checklist to the Office of Institutional Effectiveness. You can reach Institutional Effectiveness by phone or email (257-2873 or <a href="mailto:institutionaleffectiveness@uky.edu">institutionaleffectiveness@uky.edu</a>).

<sup>&</sup>lt;sup>2</sup> It is not possible to change the home academic unit of a degree program via this form. To change the home unit, visit <a href="http://www.uky.edu/faculty/senate">http://www.uky.edu/faculty/senate</a> and search for forms related to academic organizational structure.

<sup>&</sup>lt;sup>3</sup> The CIP code is provided by Institutional Effectiveness. If a different CIP code is necessary, the program may undergo a review similar to the new program approval process.

<sup>&</sup>lt;sup>4</sup> No program change(s) will be effective until all approvals are received.

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<b>1</b> j	Contact person name: Robert Molzon	Phone /	Email: 2571489 / ro	bert.molzon.uky.edu
	rview of Changes  Describe the rationale for the changes, include	ding results from the	e most recent progra	m review if applicable. (450
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<sup>&</sup>lt;sup>5</sup> A dean may submit a letter only when there is no educational unit below the college level, i.e. there is no department/school.

<sup>&</sup>lt;sup>6</sup> A dean may submit a letter only when there is no educational unit below the college level, i.e. there is no department/school.

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<sup>&</sup>lt;sup>7</sup> A dean may submit a letter only when there is no educational unit below the college level, i.e. there are no departments/schools.

Select one  Will the existing language in the Bulletin about college-level requirements change? [If "Yes," provide the new language below.  Will the pre-major or pre-professional course requirements change? [If "Yes," indicate and note the specific changes in the grid below. If "No," indicate and proceed to question 5e.)  Current  Current  Prefix & Credit Nimbr Hrs Title  MA113/ MA114  Or MA113/ MA114  Or MA137/ MA137  MA138  Select one	refix & Nmbr	Credit Hrs	Title	Prefix & Nmbr	Credit Hrs	Title	Cou	rse Status <sup>8</sup>
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<sup>&</sup>lt;sup>8</sup> Use the drop-down list to indicate if the course is a new course ("new"), an existing course that will change ("change"), or if the course is an existing course that will not change ("no change").

<sup>&</sup>lt;sup>9</sup> Use the drop-down list to indicate if the course is new, exists but will change, or exists but will not change.

<sup>&</sup>lt;sup>10</sup> Use the drop-down list to indicate if the course is new, exists but will change, or exists but will not change.

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 $<sup>^{12}</sup>$  Use the drop-down list to indicate if the course is new, exists but will change, or exists but will not change.

## CHANGE UNDERGRADUATE PROGRAM FORM

# Signature Routing Log

### **General Information:**

Current Degree Title and M Name:	ajor <u>BA/BS Math</u>	ematical Economi	<u>CS</u>
Proposal Contact Person Name:	Robert Molzon	Phone: <u>257-</u> 1480	Email: _ <u>robert.molzon@uky.edu</u> 

#### **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	
Director Of MAEC Program	04/27/2015	Robert Molzon / 257-1480 / robert.molzon@uky.edu	J 5/13	
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# **External-to-College Approvals:**

Council	Date Approved	Signature	Approval of Revision <sup>4</sup>
<b>Undergraduate Council</b>	4/25/17	Joanie Ett-Mims	
Graduate Council			
Health Care Colleges Council			
Senate Council Approval		University Senate Approval	

Comments:				

<sup>&</sup>lt;sup>4</sup> Councils use this space to indicate approval of revisions made subsequent to that council's approval, if deemed necessary by the revising council.

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			Contact Barcan Nama
7c	(Senate Academic Council)	Date Approved	Contact Person Name
7c	(Senate Academic Council)  Health Care Colleges Council (if applicab		Contact Person Ivame

#### **5h. Guided Electives (PROPOSED) 5h. Guided Electives (CURRETNT)** Other Course Work Required for the Major Other Course Work Required for the Major For the Mathematics Component: For the Mathematics Component: Choose one of the following two sequences: Choose one of the following sequences: MA 416G and MA MA 416, MA 417 and STA 525 OR MA 471, MA 417G. MA 471G and MA 472G, or STA 524 and 472 and MA 417......9 STA 525 ...... 6 **For the Economics Component:** For the Economics Component FCO 491...... 3 Choose 9 hours of 300+ level economics courses 3ch of 300+ economics course....... 3 .....9 3ch of 400+ economics course.......... 3 For the Statistics Component Choose STA 291 or a higher level statistics For the Statistics Component: course ...... 3 Choose STA 296 or a higher level statistics Other Major hours: ..... 18 course ...... 3 **Electives** Other Major hours: ..... Choose electives to lead to the minimum total 21 of 120 hours **Electives** required for graduation Choose electives to lead to the minimum total .....9 of 120 hours required for graduation .....6

# **Mathematical Economics Degree Program**

# Sample Course Sequence

	Year	Fall	Hours	Spring	Hours
	1	Core 1 (ACR)	3	Core 3 (SSC)	3
		Core 2 (HUM)	3	STA 296 (Core	3
		MA113 (Core	4	MA114	4
		Eco 201	3	ECO 202	3
		Comp I (Core	3	Comp II (Core	3
			16		16 '
	2	ECO 401	3	ECO 402	3
		MA213	4	MA214	3
		Foreign Lang	4	Foreign Lang	4
		Natural Sci (C	3	MA 322	3
		A&S Lab	1	Core 9 (CCC)	3
	_		15		16
;	3	Foreign Lang	3	Foreign Lang	3
		ECO 327	3	STA525	3
		ECO 391	3	ECO 4** Eleci	3
		MA320	3	Math/Sci Elec	3
		Core 10 (GDY	3	Math/Sci Elec	3
			15		15
ć	1	MA416	3	MA417	3
		ECO 491 (GC	3	Math/Sci Elec	3
		A&S Humaniti	3	Math/Sci Elec¹	3
		Math/Sci Elec	3	Math/Sci Elec <sup>.</sup>	3
		Elective	3		
			15		12

Total Hours 120

# MAEC Hours by Level

100 Level		200 Level		300 Level		400-500 Level		
Core 1 (ACR)	3	Eco 201	3	ECO 327	3	ECO 401	3	
Core 2 (HUM)	3	MA213	4	ECO 391	3	MA416	3	
MA113 (Core 7)	4	Foreign Lang 201	3	MA320	3	ECO 491 (GCCR)	3	
Comp I (Core 5)	3	<b>A&amp;S Humanities</b>	3	MA 322	3	Math/Sci Elective	3	
Foreign Lang 101	4	STA 296 (Core 8)	3	Math/Sci Elec	:3	Elective	3	
Natural Sci (Core	4;3	ECO 202	3			ECO 402	3	
A&S Lab	1	MA214	3			STA525	3	
Core 10 (GDY	3	Foreign Lang 202	3			ECO 4** Elective	3	
Core 3 (SSC)	3					Math/Sci Elective	3	
MA114	4					Math/Sci Elective	3	
Comp II (Core 6)	3					MA417	3	
Foreign Lang 102	4					Math/Sci Elective	3	
Core 9 (CCC)	3					Math/Sci Elective	3	
Total Hours	41		25		15		39	120

#### **Ett, Joanie M**

From: Harmon, Camille

**Sent:** Friday, April 21, 2017 1:35 PM

To: Ett, Joanie M

**Subject:** FW: Math Econ program Change

**From:** Institutional Effectiveness **Sent:** Friday, April 21, 2017 1:33 PM

To: Harmon, Camille < camille.harmon@uky.edu >; Institutional Effectiveness < InstitutionalEffectiveness@uky.edu >

Subject: RE: Math Econ program Change

#### Dear Camille,

I have reviewed the undergraduate program change proposal for Mathematical Economics and the substantive change checklist. We have determined that this change does not rise to the level of a substantive change and you have the approval of our office to advance this proposal to the next step. Please consider this email to be documentation that you have fulfilled the requirement to consult with the Office of Strategic Planning and Institutional Effectiveness.

Best,

Annie

# Annie Davis Weber, Ed.D.

Assistant Provost for Strategic Planning & Institutional Effectiveness

University of Kentucky 355B Patterson Office Tower Lexington, KY 40506

Phone: (859) 257-1962 Email: ann.weber@uky.edu





Department of Economics

Friday, May 01, 2015

To:

**Ben Withers** 

From: William Floyt

Re:

Approval of Changes in the Mathematical Economics Program

Ben,

This memorandum is to confirm that the changes in the Mathematical Economics Program sent forward were discussed and approved by the Economics faculty at a meeting of the faculty on April 8, 2014.



Russell Brown
Department of Mathematics
721 Patterson Office Tower
Lexington, KY 40506-0027
859 257 3951
Fax: 859 257 4078
rbrown@uky.edu
www.math.uky.edu/~rbrown

28 April 2015

To whom it may concern:

I am writing regarding the attached program change for the undergraduate Mathematical Economics major. The proposal was circulated to the faculty in the Department of Mathematics on 22 April 2015.

The faculty met on 28 April 2015 to discuss the changes. Eighteen faculty attended the meeting and there was unanimous support for the change.

The Department is happy to support the proposed change.

Sincerely,

Russell Brown Professor and chair From: "Rayens, William S" <rayens@uky.edu>
To: Robert Molzon <molzon@ms.uky.edu>
Subject: RE: math econ program changes
Date: Tue, 28 Apr 2015 15:17:19 +0000

Hi Robert -- These are fine changes to your program and STA supports them. Let me know if you need a more formal statement.

**Thanks** 

Bill

----Original Message----

From: Robert Molzon [mailto:molzon@ms.uky.edu]

Sent: Tuesday, April 28, 2015 11:14 AM

To: Rayens, William S

Subject: math econ program changes

Hi Bill.

I've atached the documents for the math econ program changes that we discussed a while back. One change is of course due to the new sta296. Another change that involves stat is the option to take either ma/sta320 or sta524 ( we've been allowing students to do this ayway). The last change is replacing the (sta524/sta525) OR (ma416, ma/sta417) option with ( ma416, ma/sta417 , and sta525 ). This make sense since students will now not be taking both ma/sta320 and sta524 .

I don't expect that any of these changes will really impact stat since we have been unoficially letting students more or less follow the new more sensible course schedule. It might help stat a bit with the huge class sizes in ma/ sta320.

At any rate it would be very helpful if stat could send me an e-mail of support that I can atach to the program changes.

Thanks, Robert

Robert Molzon <molzon@ms.uky.edu>