

REQUEST FOR CHANGE IN UNDERGRADUATE PROGRAM

1. General Information

College:	Arts and Sciences	Department:	Mathematics		
Current Program Name:	Mathematics	Proposed Program Name:			
Current Major Name:	Mathematics	Proposed Major Name:			
Current Degree Title:	BA	Proposed Degree Title:			
Formal Option:	A	Specialty Field:			
Bulletin (yr and pgs):	2008-09, p. 133-134	CIP Code:		UK ID #:	
				HEGIS CODE:	
Accrediting Agency (if applicable):				Today's Date:	

2. Particular University Studies Requirements or Recommendations for this Program.

	Current	Proposed
I. Mathematics		<i>No change</i>
II. Foreign Language		
III. Inference-Logic		
IV. Written Communication	ENG 104 or Honors	
V. Oral Communication	Suspended through Fall 2009	<i>Suspended through Fall 2009</i>
VI. Natural Sciences		
VII. Social Sciences		
VIII. Humanities		
IX. Cross-Cultural		
X. USP Electives (3 must be outside the student's major)		

To the extent that proposed changes in sections 3 through 8 involve courses offered in another program, please submit correspondence with the program(s) pertaining to the availability of such courses to your students.

3. University Graduation Writing Requirement - select from approved courses.

4. College Depth & Breadth of Study Requirements (if applicable). Include particular courses required/recommended for this program.

Current	Proposed
	<i>No change</i>

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5. Premajor or Preprofessional Course Requirements (if applicable).

<i>Current</i>	<i>Proposed</i>
MA 113	No change
MA 114	
CS 115	

6. Credit Hours.

a. Credit Hours Required:	Current:		Proposed:	No change
b. Total Required for Graduation:	Current:		Proposed:	No change
C. Required by Level:				
Currently:	100:	200:	300:	400-500:
Proposed:	100:	200:	300:	400-500:
d. Current Premajor or Preprofessional:			d. Proposed Premajor or Preprofessional:	
e. Current Field of Concentration:			e. Proposed Field of Concentration:	
f. Current Division of Hrs between Major Subject & Related Field:			f. Proposed Division of Hrs between Major Subject & Related Field:	
g. Current Hrs Needed for a Specific Option or Specialization:			g. Proposed Hrs Needed for a Specific Option/Specialization:	
h. Current Technical or Professional Support Electives:			h. Proposed Technical or Professional Support Electives:	
i. Current Minimum Hours of Free or Supportive Electives:			i. Proposed Minimum Hours of Free or Supportive Electives:	

7. Major or Professional Course Requirements.

<i>Current</i>	<i>Proposed</i>
Complete one of the sequences MA 351/352, MA 361/362, MA 471G/472G, MA 481G/483G, CS/MA 321/422, CS/MA 416G and MA/STA 417G, MA 433G/485G;	Complete one of the sequences MA 351/352, MA 361/362, MA 471G/472G, MA 481G/483G, CS/MA 416G and MA/STA 417G;
MA 214	MA 214 or MA 261
Additional requirements are unchanged.	

8. Minor Requirements (if applicable).

<i>Current</i>	<i>Proposed</i>
	No change.

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

Our introductory courses tend to be rather computational at the request of client departments. The goal of our upper division courses is to help students begin to create mathematical arguments. In recent years, departments across the country have begun to create bridge or transition courses as a way to help students make the transition to upper division course work in the mathematics major.

The department has offered a course, MA 261, Introduction to number theory that serves this role. The course has been targeted at students in the Secondary Education, Mathematics Education major and was never formally integrated into the mathematics major.

This proposal begins this integration by allowing MA 261 to replace MA 214 (Calculus IV, a first course in ordinary differential equations) in our degree requirements.

We do not expect this change to require additional resources. An increase in enrollment in MA 261 should be more or less balanced by a decrease in enrollment in MA 214. Any interested mathematics faculty member is able to teach either course.

The change to the list of sequences is a bow to reality. We have not been able to offer several of these sequences in recent years. They need to be removed from the Bulletin in order to avoid misleading students.

At the moment, the department does not seem to have a four year plan for the BA as most of our students choose the BS. A plan appears below. The changes indicate how the new BA plan differs from our current BS plan.

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10. List below the typical semester by semester program for a major.

Current	Hours	Proposed	Hours
YEAR 1 - Fall		YEAR 1 - Fall.	
ENG 104 (i.e. "BIO 103")	4 (i.e. "3")		
Foreign Language 101	4		
MA 113 + MA 193	5		
USP SS	3		
Current Total, Year 1 Fall:	16	Proposed Total, Year 1 Fall:	
YEAR 1 - Spring		YEAR 1 - Spring	
Foreign Language 102	4		
USP HU	3		
MA 114 + MA 194	5		
CS 115	3		
Current Total, Year 1 Spring:	15	Proposed Total, Year 1 Spring:	
YEAR 2 - Fall		YEAR 2 - Fall	
Foreign Language 201	3		
MA 213	4		
(CS 215)	4	A&S HU1	
PHY 231	4	PHY 231-USP NS	
PHY 241	1		
Current Total, Year 2 Fall:	15	Proposed Total, Year 2 Fall:	
YEAR 2 - Spring		YEAR 2 - Spring	
Foreign Language 202	3		
MA 214	3	MA 214 or MA 261	
MA 322	3		
(PHY 232 - USP NS)	4	(PHY 232 A&S NS1)	
(PHY 242 - A&S Lab)	1		
Current Total, Year 2 Spring:	15	Proposed Total, Year 2 Spring:	

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10. Semester Plans, continued.

Current	Hours	Proposed	Hours
YEAR 3 - Fall		YEAR 3 - Fall	
USP HU/2nd Tier Writing (ECO 201 USP SS)	3	A&S HU2/Graduation	
300+ MA Core Course	3		
Elective	3	A&S SS1	
Elective	3		
Current Total, Year 3 Fall:	15	Proposed Total, Year 3 Fall:	
YEAR 3 - Spring		YEAR 3 - Spring	
USP Cross Cultural / A&S (ECO 202 - A&S SS2)	3		
300 + MA Core Course	3		
Science/Math Elective	3		
A&S NS	3	A&S NS2	
Current Total, Year 3 Spring:	15	Proposed Total, Year 3 Spring:	
YEAR 4 - Fall		YEAR 4 - Fall	
300+ MA course	3		
MA Sequence Course	3		
Elective	3		
Elective	3		
Elective	3		
Current Total, Year 4 Fall:	15	Proposed Total, Year 4 Fall:	
YEAR 4 - Spring		YEAR 4 - Spring	
300+ MA Course	3		
MA Sequence Course	3		
Elective	3		
Elective	3		
Elective	3		
Current Total, Year 4 Spring:	15	Proposed Total, Year 4 Spring:	
Current Total Hours:		Proposed Total Hours:	

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12.	Requested effective date for changes (term/year):	Fall	/	2009
13.	Within the department, who should be contacted for further information about the proposed program change?			
	Name:		Phone:	
			Email:	

14. Signatures of Approval.

Nov. 11, 2008 DATE of Approval by Department Faculty	ZHONGWEI SHEN /  printed name Reported by Department Chair signatu re
11/21/08 DATE of Approval by College Faculty	Leonidas Bachas /  printed name Reported by College Dean signatu re
1-20-2009 *DATE of Approval by Undergraduate Council	/ printed name Reported by Undergraduate Council Chair signatu re
*DATE of Approval by Graduate Council	/ printed name Reported by Graduate Council Chair signatu re
*DATE of Approval by Health Care Colleges Council (HCCC)	/ printed name Reported by Health Care Colleges Council Chair signatu re
*DATE of Approval by Senate Council	Reported by Office of the Senate Council
*DATE of Approval by the University Senate	Reported by the Office of the Senate Council

*If applicable, as provided by the *University Senate Rules*.

ARTS AND SCIENCES
EDUCATIONAL POLICY COMMITTEE
INVESTIGATOR REPORT

<http://www.as.uky.edu/working/collegiate-governance/education-policy-committee/proposals/default.aspx>

INVESTIGATING AREA: Natural & Math. Sci. COURSE, MAJOR, DEGREE or PROGRAM: MA BA

DATE FOR EPC REVIEW: Nov. 21, 2008 CATEGORY: NEW, CHANGE, DROP

INSTRUCTIONS: This completed form will accompany the course application to the Graduate/Undergraduate Council(s) in order to avoid needless repetition of investigation. The following questions are included as an outline only. Be as specific and as brief as possible. If the investigation was routine, please indicate this. The term "course" is used to indicate one course, a series of courses or a program, whichever is in order. Return the form to Leonidas Bachas Associate Dean, 275 Patterson Office Tower for forwarding to the Council(s). ATTACH SUPPLEMENT IF NEEDED.

1. List any modifications made in the course proposal as submitted originally and why.
2. If no modifications were made, review considerations that arose during the investigation and the resolutions.
3. List contacts with program units on the proposal and the considerations discussed therein.
4. Additional information as needed.
5. A&S Area Coordinator Recommendation:

APPROVE, APPROVE WITH RESERVATION, OR DISAPPROVE

6. A&S Education Policy Committee Recommendation:

APPROVE, APPROVE WITH RESERVATION, OR DISAPPROVE



7.

A&S Educational Policy Committee, Natural & Mathematical Sciences Area Coordinator
Jim Holler, jim.holler@uky.edu 257-5884

Date: 11/21/08