APPLICATION FOR NEW COURSE

1.	Submitted by the College of Arts & Sciences Date: 2/19/08
	Department/Division proposing course: Mathematics
2,	Proposed designation and Bulletin description of this course:
	a. Prefix and Number MA 601
	b. Title* Teaching College Mathematics
	*If title is longer than 24 characters, write a sensible title (24 characters or less) for use on transcripts: Teaching College Math
	c. Courses must be described by <u>at least one</u> of the categories below. Include the number of <u>actual contact hours per week</u> for each category, as applicable.
	() CLINICAL () COLLOQUIUM () DISCUSSION () LABORATORY () LECTURE
	() INDEPEND. STUDY () PRACTICUM () RECITATION () RESEARCH () RESIDENCY
	(<u>1</u>) SEMINAR (<u></u>) STUDIO (<u></u>) OTHER – Please explain:
	d. Please choose a grading system: Letter (A, B, C, etc.) Pass/Fail
	e. Number of credit hours: 1
	f. Is this course repeatable? YES NO If YES, maximum number of credit hours: 3 g. Course description: A seminar for teaching assistants on the basics of teaching mathematics at the college level as well as use of appropriate technology. Includes topics such as syllabus construction, lesson planning, grading assignments, web pages, typesetting mathematics with LaTeX. Required of all new graduate teaching assistants in mathematics.
	h. Prerequisite(s), if any:
	Must hold teaching assistantship in mathematics or consent of the instructor.
	i. Will this course be offered through Distance Learning? If YES, please identify one of the methods below that reflects how the majority of the course content will be delivered:
	Internet/Web- Interactive Extended campus Kentucky Educational Television (KET/teleweb) Please describe "Other":
3.	Teaching method: N/A or Community-Based Experience Service Learning Component Both
4.	To be cross-listed as:
	Prefix and Number Signature of chair of cross-listing department
5.	Requested effective date (term/year): Fall / 2008

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6.	Course to be offered (please check all that apply): Fall Spring Summer				
7.	Will the course be offered every year?	V	YES		NO
	If NO, please explain:				
8.	Why is this course needed?				
	Per SACS requirement, new teaching assistants are required to receive training from the Universe a way to give credit to the students undergoing this training.	ersity		cours	e will
).	a. By whom will the course be taught? Claus Schubert				
	b. Are facilities for teaching the course now available?	V	YES		NO
	If NO, what plans have been made for providing them?				
10.	What yearly enrollment may be reasonably anticipated?				
l 1 ,	a. Will this course serve students primarily within the department?	V	Yes		No
	b. Will it be of interest to a significant number of students outside the department? If YES, please explain.		YES	V	NO
12,	Will the course serve as a University Studies Program course [†] ? If YES, under what Area? †AS OF SPRING 2007, THERE IS A MORATORIUM ON APPROVAL OF NEW COURSES FOR U	□ JSP.	YES	·	NO
3.	Check the category most applicable to this course:				
	relatively new – now being widely established				
	not yet to be found in many (or any) other universities				
4.	Is this course applicable to the requirements for at least one degree or certificate at UK?		Yes	V	No
5.	Is this course part of a proposed new program?		YES	V	NO
	If YES, please name:				
6.	Will adding this course change the degree requirements for ANY program on campus? If YES [‡] , list below the programs that will require this course:		YES	V	NO
	[‡] In order to change the program(s), a program change form(s) must also be submitted.	- NAME OF THE OWNER			AALANIA TA'A

APPLICATION FOR NEW COURSE

17.	V	The major tead	he major teaching objectives of the proposed course, syllabus and/or reference list to be used are attached.						
18.		Check box if course is 400G or 500.	and graduate students l	by (i) req	uiring addi	itional as	signments l	s showing differentiation for by the graduate students; and duate students. (See SR 3.1.4)	or (ii) the
19.	Witl	nin the departme	ent, who should be contact	cted for f	urther info	ormation	about the p	roposed new course?	
Name	: Ri	ussell Brown		Phone:	257-395	51	Email:	russell.brown@uky.edu	
20.		atures to report		~ .					
	DATE of Approval by Department Faculty			. 길	+ONG4)EI	SHEN	by Department Chair	
	DAT.	TE of Approval	by Department Faculty	j)r	inted name		Reported	by Department Chair	signature
	3/25/08			L	eonidas d	eches		1 llleur	
	D	ATE of Approve	al by College Faculty	pı	inted name		Reporte	ed by College Dean	signature
		7660-0						/	
	* I		val by Undergraduate runcil	pr	inted name	Rep	orted by Ui	ndergraduate Council Chair	signature
								/	
•	* D.	ATE of Approva	al by Graduate Council	pr	inted name	P	Reported by	Graduate Council Chair	signature
								/	
•	*		oval by Health Care ouncil (HCCC)	pr	inted name	Reporte	ed by Healt	h Care Colleges Council Cha	ir signature
	*1	OATE of Approv	val by Senate Council			Rep	oorted by O	ffice of the Senate Council	
•	* DA	ATE of Approva	l by University Senate	***************************************		Rep	orted by O	ffice 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

DATE!	FOR EPC REVIEW: 3/25/08 CATEGORY: NEW, CHANGE, DROP
order and as course	RUCTIONS: This completed form will accompany the course application to the Graduate/Undergraduate Council(s) in to avoid needless repetition of investigation. The following questions are included as an outline only. Be as specific s brief as possible. If the investigation was routine, please indicate this. The term "course" is used to indicate one e, a series of courses or a program, whichever is in order. Return the form to Leonidas Bachas Associate Dean, 275 rson Office Tower for forwarding to the Council(s). ATTACH SUPPLEMENT IF NEEDED.
1. J	List any modifications made in the course proposal as submitted originally and why. Learning objectives adoled. Course requirements clarified
	If no modifications were made, review considerations that arose during the investigation and the resolutions.
	List contacts with program units on the proposal and the considerations discussed therein.
4. <i>1</i>	Additional information as needed. The need a grading scale - see comment in e-mail
5. A	A&S Area Coordinator Recommendation: APPROVE, APPROVE WITH RESERVATION, OR DISAPPROVE
6. <i>i</i>	A&S Education Policy Committee Recommendation:
7. <u>/</u> 1	APPROVE WITH RESERVATION, OR DISAPPROVE Date: Marw 25, 2008 A&S Educational Policy Committee, Ruth Beattie rebeat1@uky.edu 257-7641

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

Proposed Syllabus for MA 601 - Teaching College Mathematics

MA 601 is a seminar for teaching assistants on the basics of teaching mathematics at the college level as well as use of appropriate technology.

Course Objectives

- (1) Teaching assistants will be able to enage students in the classroom.
- (2) Teaching assistants will be able to write tests and quizzes to assess students learning.
- (3) Teaching assistants will be able to use appropriate technology to prepare course materials and teach mathematics.

Outline of topics to be covered:

- Organizational meeting; teaching basics
- Syllabus construction
- What is a recitation section?
- Preparing for the first day of class
- Micro-Teaching
- Assessing and evaluating student work
- Lesson planning
- Active learning; group work
- LATEX
- HTML / Web pages
- Maintaining control in the classroom; dealing with difficult situations
- · Office hours

Grading: To receive a grade of A, students must participate in all sessions, and show exceptional performance in all assignments. Students may earn a B by showing high achievement and and a C with satisfactory achievement. Two or more unexcused absences may result in a lower final grade.

References:

- Rishel, "Teaching First: A Guide for New Mathematicians", MAA Notes #54
- Krantz, "How to Teach Mathematics", Second Edition, American Mathematical Society

Page 1 of 2

Re: MA601

Re: MA601

R. Brown [rmb.uky.math@gmail.com]

Sent:

Monday, March 17, 2008 8:24 PM

To:

Beattie, Ruth E

Cc:

Qiang Ye [qye@ms.uky.edu]; Schubert, Claus A

Attachments: ma601-syllv2.pdf (38 KB)

2008/3/3, Beattie, Ruth E <rebeat1@email.uky.edu>:

> Russell.

>

> I am a member of the College Educational Policy Committee and I am currently reviewing the MA 601 proposal.

>

> A few questions/ information needed.

>

> 1. Why should students get academic credit for work/training that is automatically part of their TA duties?

We believe that we are adding something new to the training of our teaching assistants with this course. The course will cover mechanical skills needed to teach. But it will also require students to think carefully about what we teach and how we teach. This is an important part of the professional development of our students and is deserving of academic credit.

Several departments at UK already have such courses (PHY 571, and PPA 799). Similar courses are found at a number of institutions including Minnesota (MATH 8001), Berkeley (MATH 300). One of our assistant professors, Ben Braun took a three credit course before he entered the classroom as a teaching assistant at Wash. U. in St. Louis.

>

> 2. A listing of student learning objectives is required (a listing of what the students will be able to do at the end of the course not just what they will learn)

A revised syllabus is attached.

>

> 3. The course academic requirements, grading scale and scheme need to be clarified.

>

- a. What sort of assignments will the students complete? Give some examples. Roughly how many?
- b. What % of their grade is based on participation and what percentage on the assignments?
- > C. The grading scale should indicate what % represents an A, B etc. It should be more quantitative than just "exceptional performance" or you could opt for a Pass/fail grading system.
- a. Here are some examples of assignments. We expect one short assignment ore reading per week.
- Create a sample syllabus
- Create a sample lesson plan
- Grade sample exams
- Write a mathematics quiz or exam using LaTeX

Re: MA601 Page 2 of 2

- Design a web page and post basic class / contact information
- Observe a fellow TA and discuss aspects of the class that went well and that did not go so well.
- Prepare a micro-teaching lesson
- b. We expect that grading to be roughly 50% participation and 50% assignments.
- c. I do not believe that it makes sense to indicate a percentage grading scale for each letter grade. Without a complete set of assignments, grading rubrics, and curving policies the percentage scores have little meaning. The grading standards given in the syllabus are taken from the academic requirements section of the University Bulletin (see p. 61).

We considered Pass/Fail grading, but a call to the graduate school reminded me that a graduate student may not take a course Pass/Fail. I believe that assigning letter grades is an indication to our students of the importance that we place on our teaching. Our faculty approved this grading, though there was some dissent.

Russell Brown :-: russell.brown@uky.edu

If I were founding a university I would begin with a smoking room; next a dormitory; and then a decent reading room and a library. After that, if I still had more money that I couldn't use, I would hire a professor and get some text books.

--Stephen Leacock

>

Nikou, Roshan

From: Graduate.Council.Web.Site@www.uky.edu

Sent: Monday, April 07, 2008 2:19 PM

To: Nikou, Roshan Cc: Price, Cleo

Subject: Investigator Report

AnyForm User: www.uky.edu

AnyForm Document: http://www.research.uky.edu/gs/GCInvestigatorReport.html AnyForm Server: www.uky.edu (/www/htdocs/AnyFormTurbo/AnyForm.php)

Client Address: 128.163.153.93

College/Department/Unit: = MA 601

Category: = New

Date_for_Council_Review: = 4/10/08 Recommendation_is:_ = Approve

Investigator: = Bill Smith

E-mail_Address = bsmith@engr.uky.edu

1__Modifications: = 2 Considerations: =

- 3__Contacts: = I will contact Russell Brown in Math prior to the April 10 meeting (if he is available I have left a message)
- 4__Additional_Information: = I have reservations about having a regular grade for this class. I think Russell is right about the Grad School not allowing P/F for a grad class. They have indicated that it does not count towards a degree so that makes me feel better. Given that, I don\'t see any other reason to stop its progress through the system as Math will be the ones to have to deal with possible grade inflation.

I kept this off the consent agenda to air out the grade thing. Let me know if there are questions - Bill

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Dean Blackwell,

At our April 10 Graduate Council meeting, I made the motion to accept the application for MA 601 subject to the Department of Mathematics agreeing to change it to a non-repeatable course (change line 2(f) by checking the "no" box). In communication with Dr. Brown, the Department of Mathematics has agreed to that stipulation. Given the unanimous vote at the meeting, the course proposal should be forwarded to the Senate for approval with the change of status.

Please let me know if you need any more information from me. Best regards - Bill Smith