MEMORANDUM TO: Ogden College of Science and Engineering Curriculum Committee

Dr. Jack Rudolph
Dr. James Gary
Dr. Greg Arbuckle
Dr. Martin Stone
Dr. Rong Yang
Dr. John Khouryieh
Dr. Bruce Schulte
Dr. Julie Ellis
Dr. Bruce Kessler
Dr. Phil Lienesch
Dr. Warren Campbell
Dr. Richard Schugart
Dr. Cathleen Webb
Dr. David Keeling
Dr. Keith Andrew

Dr. Hemali Rathnayake Dr. Xingang Fan

Dr. Les Pesterfield

FROM: Kenneth Crawford, Chair

SUBJECT: Agenda for Thursday, December 5, 2013, 4:00 p.m. in COHH 4123

A. OLD BUSINESS:

I. Consideration of the minutes of the November 7, 2013 meeting.

B. NEW BUSINESS:

Consent Items

Department of Architectural and Manufacturing Sciences

- I. Proposal to Delete a Course
 - a. AMS 320, Architectural Documentation, 4 hrs.
- II. Proposal to Revise Course Prerequisites
 - a. AMS 273, Architectural Detailing, 3 hrs.
 - b. AMS 325, Survey of Building Systems, 3 hrs.
 - c. AMS 363, Architectural Documentation II, 3 hrs.
 - d. AMS 372, Commercial Architectural Floor Planning, 3 hrs.
 - e. AMS 375, Special Architectural Problems, 3hrs.
 - f. AMS 378, Architectural/Professions Presentation, 3 hrs.
 - g. AMS 470, Land Development, 4 hrs.
 - h. AMS 488, Comprehensive Design, 3 hrs.

Department of Mathematics

- I. Proposal to Delete a Course
 - a. MATH 432, Introduction to Measure Theory
- II. Proposal to Revise Course Prerequisites
 - a. MATH 307, Introduction to Linear Algebra

Action Items

Department of Mathematics

- I. Proposal to Revise a Program
 - a. Ref. #728 and 528, Major in Mathematics, 39 or 36 hrs (728), 51 hrs. (528).

C. OTHER BUSINESS

I. Announcement regarding special January meeting to discuss Engineering program proposal.

Minutes - OCSE Curriculum Committee

November 7, 2013

MEMBERS PRESENT:

Dr. Martin Stone Dr. Warren Campbell Dr. Phil Linesch Dr. David Keeling

Dr. Hemali Rathnayake Dr. Dan Jackson for Dr. Greg Arbuckle

Dr. Dr. Les Pesterfield Dr. John Khouryieh
Dr. James Gary Dr. Richard Schugart
Dr. Rong Yang Dr. Keith Andrew

Dr. Julie Ellis Dr. Mark Cambron, Guest

FROM: Ken Crawford, Chair

OLD BUSINESS:

Approval of the minutes from the September 5, 2013 meeting. Motion passed.

NEW BUSINESS:

Information Agenda

All information items were passed.

Consent Agenda

All consent items were passed.

Action Agenda

Department of Architectural and Manufacturing Sciences

Keeling/Campbell moved approval of the proposal to revise a program, Ref. #575, Technology Management. Motion passed.

Department of Engineering

Keeling/Khouryieh moved approval of the proposal to create a new course, CE 305, Risk Analysis. Motion Passed.

Keeling/Campbell moved to bundle proposals to revise course credit hours, EE 180, EE 200, EE 431, and EE 460. Motion passed with a friendly amendment to add department approval date to EE 180 proposal, add "EE 200" to the end of item 3 in the EE 180 proposal, and add a space between EE and 200 in the EE 200 proposal.

Keeling/Campbell moved approval of the proposal to revise a program, Ref. # 537, Electrical Engineering. Motion Passed.

OTHER BUSINESS:

No other business. Meeting was adjourned at 4:21p.m.

Proposal Date:

College Name Department Name Proposal to Delete a Course (Consent Item)

Contact Person: Neal Downing; neal.downing@wku.edu; 745-6302

University Senate

1.	Identification of course: 1.1 Current course prefix (subject area) and num 1.2 Course title: ARCHITECTURAL DOCUME		
2.	Rationale for the course deletion: AMS 320 is no longer being offered in the department and is being deleted from the catalog. It has been replaced by AMS 263.		
3.	Effect of course deletion on programs or other departments, if known:		
4.	Proposed term for implementation: 201430		
5.	Dates of prior committee approvals:		
	Department/ Unit	11/18/2013	
	College Curriculum Committee		
	Professional Education Council (if applicable)		
	General Education Committee (if applicable)		
	Undergraduate Curriculum Committee		

Contact Person: Neal Downing, neal.downing@wku.edu, 270-745 -6302

1.	Identification of course:		
	1.1	Course prefix (subject area) and number: AMS 273	
	1.2	Course title: Architectural Detailing	
2.	Curre	nt prerequisites: AMS 320	
3.	Propo	sed prerequisites/ special requirements: AMS 263 wi	th a Grade of 'C' or better
4.		nale for the revision of prerequisites: AMS 320 is no lament and is being deleted from the catalog. It has been r	0
5.	Effect	on completion of major/minor sequence: None	
6.	Proposed term for implementation: Fall 2014		
7.	Dates of prior committee approvals:		
	Depart	ment: Architectural & Manufacturing Sciences	11/18/2013
	Ogden	College Curriculum Committee	
	Underg	graduate Curriculum Committee	
	Univer	sity Senate	

Contact Person: Neal Downing, neal.downing@wku.edu, 270-745 -6302

Identification of course:

1.

	1.1	Course prefix (subject area) and number: AMS 32	25
	1.2	Course title: Survey of Building Systems	
2.	Curi	rent prerequisites: AMS 163, 261 and Math 118 or e	quivalent
3.	Prop	osed prerequisites: AMS 163, 261 and Math 117 or	equivalent
4.		conale for the revision of prerequisites: Math 118 is a seen made the requirement.	not being offered and hence Math 117
5.	Effec	et on completion of major/minor sequence: None	
6.	Prop	osed term for implementation: Fall 2014	
7.	Dates	s of prior committee approvals:	
	Depa	rtment: Architectural & Manufacturing Sciences	11/18/2013
	Ogde	n College Curriculum Committee	
	Unde	rgraduate Curriculum Committee	
	Unive	ersity Senate	

Contact Person: Neal Downing, neal.downing@wku.edu, 270-745 -6302

Identification of course:

1.

	1.1	Course prefix (subject area) and number: AMS 363	
	1.2	Course title: Architectural Documentation II	
2.	Current prerequisites: AMS 263 with a grade of 'C' or better, 273 (formerly AMS 373)		
3.	Proposed prerequisites: AMS 263 with a grade of 'C' or better, AMS 273 with a grade of 'C' or better, AMS 305		
1.	Rationale for the revision of prerequisites: Students are required to know the principles from AMS 305 and apply them in AMS 363. A grade of 'C' or better in AMS 273 will better prepare students for AMS 363.		1 1
5.	Effect on completion of major/minor sequence: None		
ó.	Proposed term for implementation: Fall 2014		
7.	Dates of prior committee approvals:		
	Departi	ment: Architectural & Manufacturing Sciences	11/18/2013
	Ogden	College Curriculum Committee	3
	Underg	raduate Curriculum Committee	
	University Senate		

Contact Person: Neal Downing, neal.downing@wku.edu, 270-745 -6302

1.	Ident	Identification of course:	
	1.1	Course prefix (subject area) and number: AMS 37	72
	1.2	Course title: Commercial Architectural Floor Plan	ning
2.	Curr	ent prerequisites: AMS 320	
3.	Prop	osed prerequisites: AMS 263	
4.		onale for the revision of prerequisites: AMS 320 is any deleted from the catalog. AMS 320 has been repla	
5.	Effect on completion of major/minor sequence: None		
6.	Proposed term for implementation: Fall 2014		
7.	Dates of prior committee approvals:		
	Depar	rtment: Architectural & Manufacturing Sciences	11/18/2013
	Ogder	n College Curriculum Committee	
	Under	rgraduate Curriculum Committee	
	Unive	ersity Senate	
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Contact Person: Neal Downing, neal.downing@wku.edu, 270-745 -6302

1. Identification of course:		
	1.1 Course prefix (subject area) and number: AMS	S 375
	1.2 Course title: Special Architectural Problems	
2.	Current prerequisites: AMS 320	
3.	Proposed prerequisites: None	
4.	Rationale for the revision of prerequisites: AMS 320 is not being offered in the department and is being deleted from the catalog.	
5.	Effect on completion of major/minor sequence: None	
6.	Proposed term for implementation: Fall 2014	
7.	Dates of prior committee approvals:	
	Department: Architectural & Manufacturing Sciences	11/18/2013
	Ogden College Curriculum Committee	
	Undergraduate Curriculum Committee	
	University Senate	
	€/	

Contact Person: Neal Downing, neal.downing@wku.edu, 270-745 -6302

Identification of course:

1.

	1.1	Course prefix (subject area) and number: AMS 378	
	1.2	Course title: Architectural/ Professional Presentation	
2.	Curre	ent prerequisites: AMS 320; AMS 360	
3.	Propo	osed prerequisites: AMS 369	
4.	Rationale for the revision of prerequisites: AMS 320 and AMS 360 are not being offered in the department. They no longer need to be mentioned in the list of prerequisites. Projects created in AMS 369 are used as the base for creating presentations in AMS 378.		f prerequisites. Projects created in
5.	Effect on completion of major/minor sequence: None		
5.	Proposed term for implementation: Fall 2014		
7.	Dates	of prior committee approvals:	
	Depart	tment: Architectural & Manufacturing Sciences	11/18/2013
	Ogden	College Curriculum Committee	
	Under	graduate Curriculum Committee	
	Univer	rsity Senate	

Contact Person: Neal Downing, neal.downing@wku.edu, 270-745 -6302

Identification of course:

1.

	1.1	Course prefix (subject area) and number: AMS 470	
	1.2	Course title: Land Development	
2.	Current prerequisites: CE 216, AMS 325, AMS 373		
3.	Prop	oosed prerequisites: AMS 273	
4.	has b	onale for the revision of prerequisites: AMS 373 is not been replaced with AMS 273. CE 216 is not offered by the second of the content covered in the content covered in the caseful in AMS 470. AMS 373 is not being offered; it has	the Civil Engineering Department. AMS 325 is not required to be
5.	Effec	ct on completion of major/minor sequence: None	
6.	Prop	osed term for implementation: Fall 2014	
7.	Date	s of prior committee approvals:	
	Depa	rtment: Architectural & Manufacturing Sciences	11/18/2013
	Ogde	n College Curriculum Committee	
	Unde	ergraduate Curriculum Committee	
	Unive	ersity Senate	

Contact Person: Neal Downing, neal.downing@wku.edu, 270-745 -6302

1.	Identification of course:	
	1.1 Course prefix (subject area) and number: AMS	3 488
	1.2 Course title: Comprehensive Design	
2.	Current prerequisites: Senior Standing and consent of	f Instructor
3.	Proposed prerequisites: AMS 363, AMS 369, Senior S	Standing and consent of Instructor
4.	Rationale for the revision of prerequisites: AMS 363 and AMS 369 will better prepare students for the capstone sequence.	
5.	Effect on completion of major/minor sequence: None	
6.	Proposed term for implementation: Fall 2014	
7.	Dates of prior committee approvals:	
	Department: Architectural & Manufacturing Sciences	11/18/2013
	Ogden College Curriculum Committee	
	Undergraduate Curriculum Committee	
	University Senate	

Proposal Date:11/15/13

Ogden College of Science and Engineering Department of Mathematics Proposal to Delete a Course (Consent Item)

Contact Person: John Spraker, john.spraker@wku.edu, 745 - 6220

1. Identification of course:			
	1.1	Current course prefix (subject area) and number: MAT	ГН 432
	1.2	Course title: Introduction to Measure Theory	
2.	This co	ale for the course deletion: burse has not been offered in more than 5 years. Student e new course, MATH 337, followed by MATH 431 for to need MATH 432.	
3.	Effect of course deletion on programs or other departments, if known: None		
4.	Proposed term for implementation: Fall 2014		
5.	Dates of prior committee approvals:		
	Departr	ment of Mathematics	November 15, 2013
	Ogden College Curriculum Committee		
	Undergraduate Curriculum Committee		
	Univers	sity Senate	

Proposal Date: 11/15/13

Ogden College of Science and Engineering Department of Mathematics Proposal to Revise Course Prerequisites/Corequisites (Consent Item)

Contact Person: John Spraker, john.spraker@wku.edu, 745 - 6220

University Senate

1.	Identifi	cation of course:		
	1.1	Course prefix (subject area) and number: M	1ATH 307	
	1.2	Course title: Introduction to Linear Algebra	a	
2.	Current	t prerequisites:		
	MATH	136 and either EE 180 or PHIL 215 with a g	grade of C or better.	
3.	Propose	ed prerequisites:		
	MATH	136 with an A or MATH 142 with an A or M	MATH 137 with a C or better.	
4.	Rationa	Rationale for the revision of prerequisites:		
	The new	requirement better reflects the required pre	paration and provides the opportunity for	
	some stu	idents to progress more rapidly in the major	•	
5.	Effect of	Effect on completion of major/minor sequence:		
	As stated prerequire	d above, some students will be able to comp sites.	lete the major more rapidly with the new	
6.	Propose	Proposed term for implementation:		
	Fall 2014	4		
7.	Dates of	f prior committee approvals:		
	Departm	ent of Mathematics	November 15, 2013	
	Ogden C	College Curriculum Committee		
	Professio	onal Education Council		

Proposal Date: 11/15/13

Ogden College of Science and Engineering Department of Mathematics Proposal to Revise A Program (Action Item)

Contact Person: John Spraker, john.spraker@wku.edu, 745 - 6220

1. Identification of program:

- 1.1 Current program reference numbers: 728 and 528
- 1.2 Current program title: Major in Mathematics
- 1.3 Credit hours: 39 or 36 hours (728), 51 hours (528)

2. Identification of the proposed program changes:

- o Removal of the PHIL 215 or EE 180 requirement from the 728 major.
- o Reduction of the computer science requirement from 8 hours to 4 hours in the 728 major.
- o Removal of the 12-hour supporting course requirement from the 728 major.
- o Removal of the deleted course MATH 432.
- o Inclusion of MATH 371 as an elective in the 528 major and the non-teacher certifiable 728 major.
- o Inclusion of MATH 371 as an option in the computational requirement of the 528 major.

3. Detailed program description:

Program Description
Major in Mathematics

A major in mathematics provides a Bachelor of Arts degree an requires either a minimum of 36
-39 semester hours for a general major with a minor or second major or a minimum of 51 semester hours for an extended major. Note:
All mathematics courses listed as prerequisites for other courses must have been completed with a grade of C or better.
Students who wish to declare a 728 or 528 mathematics major will initially be designated as "seeking admission" until the following requirements have been satisfied:

New Program Description
Major in Mathematics
A major in mathematics provides a Bachelor of
Arts degree and requires either a
minimum of 36 -39 semester hours for a
general major with a minor or second major or
a minimum of 51 semester hours for an
extended major. Note: All mathematics
courses listed as prerequisites for other courses
must have been completed with a grade of C or
better.
Students who wish to declare a 728 or 528

Students who wish to declare a 728 or 528 mathematics major will initially be designated as "seeking admission" until the following

- Complete MATH 136, MATH 137, and MATH 307 or MATH 310 with a grade of "C" or better in each course.
- Have an overall GPA of at least 2.4 in mathematics program courses (MATH 136 and above) completed prior to admission. The general major (728) offers two options: (1) Non-teacher certifiable Major in Mathematics; (2) Major Certifiable for Teaching Secondary Level Mathematics. The extended major (528) offers only the first option. Option 1 students are required to complete both **CS 180 and 181.** Option 2 students are required to complete either CS 170 or 180.

Option 1:Non-Teacher
Certifiable Major in
Mathematics.

(A) General Major(728): To
prepare for employment
in industry, the student
must complete a minimum

of 39 hours of mathematics

requirements have been satisfied:

- Complete MATH 136, MATH 137, and MATH 307 or MATH 310 with a grade of "C" or better in each course.
- Have an overall GPA of at least 2.4 in mathematics program courses (MATH 136 and above) completed prior to admission. The general major (728) offers two options: (1) Non-teacher certifiable Major in Mathematics; (2) Major Certifiable for Teaching Secondary Level Mathematics. The extended major (528) offers only the first option. Option 1 students in the general major (728) are required to satisfy a computational requirement by completing either CS 180 or 181, while those in the extended major (528) are required to satisfy a computational requirement by completing both CS 180 and either CS 181 or MATH 371. (If MATH 371 is selected to fulfill this requirement, it cannot also be used as an elective in the extended major (528).) Option 2 students are required to complete either CS 170 or 180. Option 1: Non-Teacher

Certifiable Major in

(A) General Major (728): The

student must complete a

minimum of 39 hours of

or second major giving a

mathematics with a minor

Mathematics.

- with a minor or second major, giving a total of at least 59 hours (53 unduplicated) with the following requirements:
- 1. MATH 136, 137, 237, 307, 310, 317, 337, 498.
- 2. Two courses from MATH 405, 406, 415, 417, 423, 431, 435, 439, 450, 470, 473, 482.
- 3. Six elective hours from MATH 275 (up to 3 hours), STAT 301, MATH 305, 315, 323, 331, 370, 382, 398 (up to 3 hours), 405, 406, 415, 417, 423, 432, 435, 439, 450, 470, 475 (up to 6 hours), 482.
- 4. Students may take certain 500-level mathematics courses for undergraduate credit with the approval of the Dept. Head in place of courses listed in items 2 or 3.
- 5. In addition, 12 credit hours of supporting courses from the Ogden College of Science and Engineering or Gordon Ford College of Business (courses such as mathematics, statistics, sciences, engineering, economics, finance, and accounting) are required. These courses must be approved by the

- total of at least 59 hours (53 unduplicated) with the following requirements.

 1. MATH 136, 137, 237, 307, 310, 317, 337, 498.
- 2. Two courses from MATH 405, 406, 415, 417, 423, 431, 435, 439, 450, 470, 473, 482.
- 3. Six elective hours from MATH 275 (up to 3 hours), STAT 301, MATH 305, 315, 323, 331, 370, **371**, 382, 398 (up to 3 hours), 405, 406, 415, 417, 423, 435, 439, 450, 470, 475 (up to 6 hours), 482.
- 4. Students may take certain 500-level mathematics courses for undergraduate credit with the approval of the Dept. Head in place of courses listed in items 2 or 3.
- 5. Note: This major is not intended to prepare students adequately for graduate mathematics. Students intending to seek a graduate degree should pursue major 528.

mathematics and computer science department head. These hours will not count toward a first minor nor usually toward a second major.

- 6. Also required is PHIL 215, or EE 180.
- 7. Note: This major is not intended to prepare students adequately for graduate mathematics. Students intending to seek a graduate degree should pursue major 528.
- (B) Extended Major (528): To prepare for graduate study in mathematics, the student must complete a minimum of 51 hours of mathematics with the following requirements:
 - 1. MATH 136, 137, 237, 307, 310, 317, 337, 431, 498.
 - Have a concentration in one of the following areas B1, B2, or B3.
 B1. Fundamentals of Analysis and Discrete Mathematics.
 - i. MATH 417, 439, 450.
 - ii. Two courses from MATH 315, 323, 415, 423, **432,** 473.
 - iii. Six additional elective hours

- (B) Extended Major (528): To prepare for graduate study in mathematics, the student must complete a minimum of 51 hours of mathematics with the following requirements:
 - 1. MATH 136, 137, 237, 307, 310, 317, 337, 431, 498.
 - 2. Have a concentration in one of the following areas B1, B2, or B3. B1. Fundamentals of Analysis and Discrete Mathematics.
 - i. MATH 417, 439, 450.
 - ii. Two courses from MATH 315, 323, 415, 423, 473.
 - iii. Six additional elective hours

from MATH	from MATH
275 (up to 3	275 (up to 3)
hours), STAT	hours), STAT
301, MATH	301, MATH
305, 315, 323,	305, 315, 323,
331, 370, 382,	331, 370, 371
398 (up to 3	(provided
hours), 405,	MATH 371
406, 409, 415,	was not used to
	and the second s
423, 432 , 435,	satisfy the
470, 473, 475	computational computational
(up to 6 hours),	<mark>requirement</mark>
482.	<mark>above), 382,</mark>
	398 (up to 3
	hours), 405,
	406, 409, 415,
	423, 435, 470,
	473, 475 (up to
	6 hours), 482.
B2. Fundamentals of	B2. Fundamentals of
Applied Mathematics.	Applied Mathematics.
	i. MATH 331,
370, 382, 405.	370, 382, 405.
ii. Two courses	ii. Two courses
from MATH	from MATH_
305, 406, 435,	305, 406, 435,
470, 482.	470, 482.
iii. Three credit	iii. Three credit
hours from	hours from
MATH 275,	MATH 275,
STAT 301,	STAT 301,
MATH 305,	MATH 305,
315, 323, 398,	315, 323, 371
406, 409, 415,	(provided
417, 423, 432 ,	
the state of the s	MATH 371
435, 439, 450,	was not used to
470, 473, 475,	satisfy the
482.	computational
	<mark>requirement</mark>
	<mark>above),</mark> 398,
	406, 409, 415,
	417, 423, 435,
	439, 450, 470,
	473, 475, 482.
B3. Fundamentals of	B3. Fundamentals of
Mathematical Studies.	Mathematical Studies.
iviationatical studies.	iviamentatical studies.

i.	MATH 450.
ii.	Two courses
	from MATH
	405, 406, 409,
	415, 417, 423,
	432 , 435, 439,
	470, 473, 482.
iii.	Twelve
	<mark>additional</mark>
	elective hours
	from MATH
	275 (up to 3
	hours), STAT
	301, MATH_
	305, 315, 323,
	331, 370, 382,
	398 (up to 3)
	hours), 405,
	406, 409, 415,
	423, 432 , 435,
	470, 473, 475
	(up to 6 hours),
	482.

- 3. Students may take certain 500-level mathematics courses for undergraduate credit in place of courses listed in items B1i, B1ii, B2i, B2ii, B3i, or B3ii with the approval of the Mathematics Department head. No minor or a second major for the extended major is required.
- 4. Also required is PHIL 215 or EE 180.

MATH 450. ii. Two courses from MATH 405, 406, 409, 415, 417, 423, 435, 439, 470, 473, 482. iii. **Twelve** additional elective hours from MATH 275 (up to 3 hours), STAT 301, MATH 305, 315, 323, 331, 370, **371** (provided **MATH 371** was not used to satisfy the **computational** requirement above), 382, 398 (up to 3 hours), 405, 406, 409, 415, 423, 435, 470, 473, 475 (up to 6 hours), 482.

- 3. Students may take certain 500-level mathematics courses for undergraduate credit in place of courses listed in items B1i, B1ii, B2i, B2ii, B3i, or B3ii with the approval of the Mathematics Department head. No minor or a second major for the extended major is required.
- 4. Also required is PHIL 215 or EE 180.

Option 2: Major
Certifiable for Teaching
Secondary Level
Mathematics (reference
number 728): The student
must complete a minimum
of 36 hours of mathematics
with a second major in
Science and Mathematics
Education (SMED) and
with the following
requirements:

- 1. MATH 136, 137, 237, 304, 307, 310, 317, 323, 498; STAT 301. Before the "professional semester" the student must complete each of these courses with a grade of "C" or better and achieve a GPA of at least 2.5 in required mathematics courses.
- 2. At least 3 hours of 400-level mathematics from the following list: MATH 405, 406, 409, 415, 417, 421, 423, 431, 432, 435, 439, 450, 470, 482.
- 3. Also required is PHIL 215, or EE 180.

Students in this option must have a second major in science and mathematics education (SMED). In addition students must attain a grade of "C" or better in each required mathematics course and a 2.5 GPA for all required mathematics courses.

Option 2: Major
Certifiable for Teaching
Secondary Level
Mathematics (reference
number 728): The student
must complete a minimum
of 36 hours of mathematics
with a second major in
Science and Mathematics
Education (SMED) and
with the following
requirements:

- 1. MATH 136, 137, 237, 304, 307, 310, 317, 323, 498; STAT 301. Before the "professional semester" the student must complete each of these courses with a grade of "C" or better and achieve a GPA of at least 2.5 in required mathematics courses.
- 2. At least 3 hours of 400-level mathematics from the following list: MATH 405, 406, 409, 415, 417, 421, 423, 431, 435, 439, 450, 470, 482.

Students in this option must have a second major in science and mathematics education (SMED). In addition students must attain a grade of "C" or better in each required mathematics course and a 2.5 GPA for all required mathematics courses.

4. Rationale for the proposed program change:

Dates of prior committee approvals:

University Senate

6.

Since WKU's general education program is being revised we are taking the opportunity to review our offerings as well. We believe that the new Colonnade program may substitute for some of the requirements we are deleting. The proposed changes in our 728 program should make this major more attractive to students with an interest in mathematics who would like to major or minor in some other area as well. It is hoped that the new requirements will provide more flexibility in scheduling so that students are able to complete their programs on time. Some of the courses required in the current program were included because they were prerequisites for MATH 307, but that is no longer the case. The inclusion of MATH 371 as an option in the computational requirement for the 528 major and as an elective in the 528 major and the non-teacher certifiable 728 major will provide students the opportunity to use *Mathematica*, which is a powerful tool in problem solving.

5.	Proposed term for implementation and special provisions (if applicable):
	Fall 2014

_	Department of Mathematics	11-15-2013
	Ogden College_Curriculum Committee	
	Professional Education Council	1
	Undergraduate Curriculum Committee	