UNIVERSITY FACULTY SENATE FORMS

Academic Program Approval

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: _Yuk-J Leung	phone numberX-1881
Department: Mathematical Sciences email:	yleung@math.udel.edu
Action: Minor revision of major requirements	
(Example: add major/minor/concentration, delete major/minor/concentration, academic unit name change, rec	major/minor/concentration, revise quest for permanent status, policy change, etc.)
Effective term10F	
Effective term10F(use format 04F, 05W)	
Current degreeBA in Mathematics Education	
(Example: BA, BACH, BACJ, HBA, E	EDD, MA, MBA, etc.)
Proposed change leads to the degree of: BA in Ma (Example:	nthematics Education_ BA, BACH, BACJ, HBA, EDD, MA, MBA, etc.)
Proposed name: N/A Proposed new name for revised or new ma (if applicable)	jor / minor / concentration / academic unit
Revising or Deleting:	
Undergraduate major / Concentration (Example: A	:_Mathematics Education BA XMS Applied Music – Instrumental degree BMAS)
Undergraduate minor:	
(Example: African Studies, B	susiness Administration, English, Leadership, etc.)
Graduate Program Policy statement chang	ge:
	st attach your Graduate Program Policy Statement)
Graduate Program of Study:(Example: Animal Science: MS Animal S	
(Example: Animal Science: MS Animal S	Science: PHD Economics: MA Economics: PHD)
Graduate minor / concentration:	

Note: all graduate studies proposals must include an electronic copy of the Graduate Program Policy Document, highlighting the changes made to the original policy document.

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")

There are no new courses required. We are allowing CISC 106 as an extra alternative course to CISC 108 or 181. See attached statement from the CISC Chair

Explain, when appropriate, how this new/revised curriculum supports the 10 goals of undergraduate education: http://www.ugs.udel.edu/gened/

Identify other units affected by the proposed changes:

(Attach permission from the affected units. If no other unit is affected, enter "None")

NONE

Describe the rationale for the proposed program change(s):

(Explain your reasons for creating, revising, or deleting the curriculum or program.)

The old CISC 105 has been de-activated. The Computer Science Department has set up Cisc 106 or 108 as new substitutes

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.)

The alternate course CISC 106 is printed in blue ink.

ROUTING AND AUTHORIZAT	TION: (Please do not remove	supporting documentation.)
Department Chairperson l ller	M	Date 5/7/10
Dean of College		Date
Chairperson, College Curriculum Committee		Date
Chairperson, Senate Com. on UG or GR Studies		Date
Chairperson, Senate Coordinating Com.	Da	ate
Secretary, Faculty Senate		Date
Date of Senate Resolution		Date to be Effective
Registrar	Program Code	Date
Vice Provost for Academic Affairs & Internation	nal ProgramsDa	ite
Provost		Date
Board of Trustee Notification		Date
Revised 10/23/2007 /khs		

Proposed Change on BA in Mathematics Education

Note on: side by side comparison only CISC 106 is added as an alternate to CISC 108

DEGREE: BACHELOR OF ARTS MAJOR: MATHEMATICS EDUCATION

CURRICULUM CREDITS

UNIVERSITY REQUIREMENTS ENGL 110 Critical Reading and Writing (minimum grade C-)	3
First Year Experience (FYE)	0-4
Discovery Learning Experience (DLE)	3
Multi-cultural Courses	3

COLLEGE REQUIREMENTS

Writing: (minimum grade C-) 3 A second writing course involving significant writing experience including two papers with a combined minimum of 3,000 words to be submitted for extended faculty critique of both composition and content. This course must be taken after completion of 60 credit hours.

Foreign Language:

0 - 12

Completion of the intermediate-level course (107 or 112) in a given language. Number of credits needed and initial placement will depend on number of years of high school study of foreign language. Students with four or more years of high school work in a single foreign language may attempt to fulfill the requirement by taking an exemption examination.

BREADTH REQUIRMENTS

Group A	9
Group B	9
Group C	9
Group D	10

MAJOR REQUIREMENTS

A grade of C- or better is required for major courses and EDUC courses and related work. Students lacking preparation for MATH 242 should begin with MATH 241.

MATH 210 Discrete Mathematics I

MATH 242 MATH 243 MATH 245 MATH 308 MATH 349 MATH 350 MATH 450 MATH 451 MATH 518 or	Analytic Geometry and Calculus B Analytic Geometry and Calculus C An Introduction to Proof Historical Development of Mathematical Concepts and Ideas Elementary Linear Algebra Probability Theory and Simulation Methods Mathematical Statistics Abstract Algebra I Mathematical Models and Applications	4 4 3 3 3 3 3 3 3
another Mod MATH 540	leling course Geometry	~
MATH 340	Geometry	3
	ollowing Mathematics Courses	3
MATH 302 MATH 315	Ordinary Differential Equations Discrete Mathematics II	
MATH 401	Introduction to Real Analysis	
MATH 508	Introduction to Complex Variables	
One of the fo	ollowing Computer Science Courses	3
CISC106	General Computer Science for Engineers	
or CISC108	Introduction to Computer Science I	
or		
CISC181	Introduction to Computer Science II	
PHYS 207	Introductory Physics I	4
MATH 279	Problem Solving Strategies I	1
MATH 379	Problem Solving Strategies	1
MATH 380	Approaches to Teaching Mathematics	3
MATH 382 EDUC 400	Student Teaching Seminar: Secondary Math Student Teaching	2
EDUC 413	Adolescent Development and Educational Psychology	9 4
EDUC 414	Teaching Exceptional Adolescents	3
EDUC 419	Diversity in Secondary Education	3
EDUC 420	Reading in the Content Areas	1

To be eligible to student teach, Mathematics Education students must have a GPA of 2.5 in their mathematics major and an overall GPA of 2.5. They must also pass a teacher competency test as established by the University Council on Teacher Education. Remaining in the program is subject to periodic review of satisfactory progress and, to be admitted to EDUC 400 Student Teaching, students must have completed all the mathematics courses required in the secondary mathematics education program. Students should consult the teacher education program coordinator to obtain the student teaching application and other information concerning student teaching policies.

ELECTIVES

After required courses are completed, sufficient elective credits must be taken to meet the minimum credit requirement for the degree, with 79 credits outside of Mathematics.

CREDITS TO TOTAL A MINIMUM OF

124

2009-2010 UD Catalog ->
2009-2010 Undergraduate Programs ->
College of Arts and Sciences ->
Mathematical Sciences -->
BACHELOR OF ARTS - MATHEMATICS EDUCATION

Academic Year: 2009-2010 ▼

DEGREE: BACHELOR OF ARTS

MAJOR: MATHEMATICS EDUCATION

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Multi-cultural Course	es	3

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Foreign Language:

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Group B		9
Group C		9
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BACHELOR OF ARTS - MATHEMATICS EDUCATION

Academic Year: 2009-2010

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