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: (Gilberto Schleiniger	р	hone number:	831-1872
Action: Add m	ajor			
(Ex major/minor/	ample: add major/minor/concent concentration, academic unit nan	ration, delete major/min ne change, request for p	or/concentration, ermanent status, po	revise blicy change, etc.)
Effective term:	07F (use format 04F, 05W)			
Current degree_	(Example: BA, BACH, BAC	J, HBA, EDD, MA, MBA	, etc.)	
Proposed change	e leads to the degree of:]	BS		
roposed ending.	(Example: BA, BACH, BA	CJ, HBA, EDD, MA	A, MBA, etc.)
Proposed name:	Mathematics Education			
	Proposed new name for revise (if appli	d or new major / minor / cable)	concentration / ac	ademic unit
Revising or Dele	eting:			
Undergra	duate maior / Concentra	tion:		
Chucigit	(E	xample: Applied Mus	ic – Instrumental	degree BMAS)
TT 1	1 / •			
Undergra	(Example: Africar	n Studies, Business Adn	ninistration, Englis	sh, Leadership, etc.)
Graduate	Program Policy stateme	nt change:		
		(Attach your	Graduate Program	Policy Statement)
Graduate	Program of Study:			
2	(Example: Animal Science: M	S Animal Science: PHI	D Economics: MA	Economics: PHD)
Graduate	minor / concentration:_			

List program changes for curriculum revisions:

List new courses required for the new or revised curriculum:

(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")

No new courses are required by the new curriculum.

Other affected units:

(List other departments affected by this new or revised curriculum. Attach permission from the affected units. If no other unit is affected, enter "None")

No other units are affected.

Rationale:

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

Mathematically talented students who want to train as math teachers also want the option of pursuing graduate education in mathematics after teaching in high schools for a few years. In addition, high school mathematics teachers with mathematical knowledge beyond that required for the state certification would be an asset in our high schools.

The XMS degree (BA in Math Education) does not have room to fit in more mathematics courses due to the breadth and language requirements of the College of Arts and Sciences for the BA degree; so students do not have room in their schedules to take advanced mathematics courses beyond those required for state certification in Math Education.

We propose a BS in Mathematics Education which will retain all the Math and Education requirements of the XMS degree, and almost all the Math requirements of the BS in Mathematics, while reducing the College group requirements, and eliminating the language requirements.

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 present curriculum.)

•	University Requirements ENGL 110 Critical Reading and Writing (minimum grade C-)	. 3
	First Year Experience	0-4
	Discovery Learning Experience	. 3
	Three credits in an approved course or courses stressing multi-cultural, ethnic, and/or gender-related course content	3
•	College Requirements Writing (minimum grade C-) Second writing course taken after completion of 60 credit hours.	. 3

Foreign La Completion Number of of high sch high schoo in that lang	nguage of the intermediate-level course (107 or 112) in a given language. credits needed and initial placement will depend on number of years ool study of foreign language. Students with four or more years of I work in a single foreign language may attempt to fulfill this requirem uage by taking an exemption examination.	0-12 s
• Breadth F Eighteen ci	Requirements redits from Groups A, B and C with a minimum of six credits from ea	ch group.
Croup A		6
Group B		6
Group C		6
Major Red A grade of	quirements C- or better is required for major courses and related work.	
Mathema MATH 210 MATH 242 MATH 243 MATH 243 MATH 245 MATH 302 MATH 302 MATH 308 MATH 308 MATH 350 MATH 450 MATH 451 One of the MATH 540 One course MATH 540	tics Section Discrete Mathematics I Analytic Geometry and Calculus B Analytic Geometry and Calculus C An Introduction to Proof Ordinary Differential Equations Historical Developments of Mathematical Concepts and Ideas Elementary Linear Algebra Probability Theory and Simulation Methods Mathematical Statistics Abstract Algebra I following modeling classes College Geometry: A Historical Approach following list following list following list College Mathematics II following list College Calculus for Applications College Calculus for Applications College Calculus for Applications College Mathematics Colle	3 4 3 3 3 3 3 3 3 3
Computer Either CISC Science S A two-sem for non-ma	r and Information Sciences Section C 105 (for those with no previous equivalent experience) or CISC 187 Section ester, 8 credit sequence of laboratory science (courses designed jors in a discipline are not appropriate, except for CHEM 103104)	1. 3 8
Professio MATH 279 MATH 379 MATH 380 MATH 382	Image: mail Development Section Problem Solving Strategies I Problem Solving Strategies Approaches to Teaching Mathematics Student Teaching Seminar in Secondary Math	. 1 1 . 3 2

EDUC 413 Adolescent Development and Educational Psychology 4 EDUC 414 Teaching Exceptional Adolescents 3 EDUC 419 Diversity in Secondary Education 3 EDUC 420 Reading in the Content Areas 1 Nine additional credits in mathematics or in related disciplines at the 300 level or above 6 Courses not approved for math majors cannot be counted towards these 9 additional credits. Non mathematics courses can be in CISC, ECON, PHYS and STAT from an approved list maintained by the Department of Mathematical Sciences.	EDUC 400	Student Teaching	9
EDUC 414 Teaching Exceptional Adolescents 3 EDUC 419 Diversity in Secondary Education 3 EDUC 420 Reading in the Content Areas 1 Nine additional credits in mathematics or in related disciplines at the 300 level or above 1 Courses not approved for math majors cannot be counted towards these 9 additional credits. Non mathematics courses can be in CISC, ECON, PHYS and STAT from an approved list maintained by the Department of Mathematical Sciences.	EDUC 413	Adolescent Development and Educational Psychology	4
EDUC 419 Diversity in Secondary Education 3 EDUC 420 Reading in the Content Areas 1 Nine additional credits in mathematics or in related disciplines at the 300 level or above 1 Courses not approved for math majors cannot be counted towards these 9 3 additional credits. Non mathematics courses can be in CISC, ECON, PHYS and STAT from an approved list maintained by the Department of Mathematical Sciences. 3	EDUC 414	Teaching Exceptional Adolescents	3
EDUC 420 Reading in the Content Areas	EDUC 419	Diversity in Secondary Education	3
Nine additional credits in mathematics or in related disciplines at the 300 level or above	EDUC 420	Reading in the Content Areas	1
	Nine additic or above Courses no additional co STAT from Sciences.	onal credits in mathematics or in related disciplines at the 300 level of approved for math majors cannot be counted towards these 9 redits. Non mathematics courses can be in CISC, ECON, PHYS and an approved list maintained by the Department of Mathematical	. 9

Credits to total a minimum of 124

ROUTING AND AUTHORIZATION: (Please do not remove supporting documentation.)

Department Chairperson	Date	
Dean of College	Date	
Chairperson, College Curriculum Com	Date	
Chairperson, Senate Com. on UG or G	Date	
Chairperson, Senate Coordinating Com		Date
Secretary, Faculty Senate		Date
Date of Senate Resolution		Date to be Effective
Registrar	Program Code	Date
Vice Provost for Academic Programs	Date	
Provost		Date
Board of Trustee Notification		Date
Revised 11/03/04 /khs		