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BROWARD COLLEGE

Define yourself.

To: Members of the Board of Trustees

From: J. David Armstrong Jr., President

Date: April 28, 2009

Place: Regular Meeting of the Board of Trustees
Broward College
Boardroom 1208, Building 33, Willis Holcombe Center
111 East Las Olas Boulevard
Fort Lauderdale, FL

Subject: Agenda Item V-G-4- Curriculum Items - New Program-Secondary Math-B.S.

Brief Description: This enclosure contains the recommendation from the college-wide Curriculum Committee for the month of March, specific to a Bachelor of Science Teacher Education: Secondary Mathematics program of study. This program closely integrates Teacher Education Professional Education Core competencies from BC's existing BS Teacher Education Exceptional Student Education program, as well as delineates Subject Area Content and Professional Experience Courses specific to Secondary Mathematics.

Benefit to BC: Establishes the program of study for BC's third Teacher Education bachelor's award.

Relationship to College Master Plan: Provides an access point for student training in Secondary Grades Mathematics at the bachelor level.

Board Agenda Approved: _____
Date: April 2, 2009

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Enclosure 4

**BOARD OF TRUSTEES
AGENDA TRANSMITTAL SHEET**

To: **President** Date: April 2, 2009
From: **Vice President Judith Scherer**
Subj: **Monthly Curriculum Committee Items**
Issue: **Curriculum Items: New Program-Secondary Math-B.S.**

Background/Analysis: **Curriculum Committee meets monthly to recommend items.**

Fiscal Impact: **N/A**

Initiating Official



Vice President/Provost

Staff Position:

THIS RECOMMENDED ACTION MEETS THE FOLLOWING ELEMENT(S) OF THE COLLEGE'S MISSION STATEMENT:

- | | |
|--|--|
| <input checked="" type="checkbox"/> Providing high quality educational programs | <input checked="" type="checkbox"/> Providing high quality services |
| <input checked="" type="checkbox"/> Providing for affordability to a diverse community of learners | <input checked="" type="checkbox"/> Providing for accessibility to a diverse community of learners |
| <input checked="" type="checkbox"/> Commitment to student achievement | <input checked="" type="checkbox"/> Commitment to lifelong learning |
| <input checked="" type="checkbox"/> Commitment to academic excellence | <input checked="" type="checkbox"/> Providing use of current technology |

BRIEFLY DESCRIBE HOW THIS RECOMMENDATION ACHIEVES THE ABOVE ELEMENT(S) IN THE COLLEGE'S MISSION STATEMENT:

Minority Firm: Yes ___ No ___ N/A ___ Broward Firm: Yes ___ No ___ N/A ___

MEMORANDUM

TO: Mr. David Armstrong, President
Broward College

FROM: Dr. Judith Scherer,
Vice President for Academic Affairs

RE: Curriculum Items: New Program

DATE: March 9, 2009

New Program:

The following new program is built around seven new courses in the Secondary Mathematics Teacher Education Subject and Professional Experience areas plus existing Teacher Education Professional Education Core courses. The Board approved the Baccalaureate Degree program for Teacher Education Exceptional Student Education in December 2008, thereby approving required Professional Education Core coursework.

Secondary Mathematics (Grades 6-12) (B.S.)

Courses: Upon approval of the March 31, New Courses transmittal by Broward College's Board of Trustees, all courses required by this program will have been approved.

Program Needs Analysis:

According to a report on the critical teacher shortage areas for 2007-2008, the Florida Department of Education's Office of Evaluation and Reporting projected that 88% of the total need will likely occur in four fields -- ESE, Mathematics, Reading and Science.

According to the School Board of Broward County's Instructional Staffing Department these areas are the hardest to staff. The critical shortage of mathematics teachers extends throughout the nation. Due to the low graduation rates in the critical shortage areas in Florida institutions of higher education, Broward County actively recruits locally and in 10 other states.

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Advisory Committee Endorsement of Curriculum and Program: The program has an advisory committee comprised of faculty, administrators, students, and Broward County School Board personnel. The Teacher Education Program Advisory Committee reviewed and endorsed this program of study on January 9, 2009.

Salary Levels for Graduates: Salaries for beginning teachers in Broward County Schools start at \$38,500.

Available Program Resources: While the program builds enrollment, courses will be taught by current Broward College Math full time faculty and adjunct faculty. Broward College currently has technology rich education classrooms designed to enhance the teaching and learning process.

Future Program Resource Needs:

Full-time faculty	In order to maintain SACS and FLDOE standards we will need to hire at least one full-time faculty with a doctorate in Mathematics Education in the near future. More faculty may be necessary as the program grows in enrollment.
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Program Accreditation/ Industry Approval: BC's Teacher Education Program received approval on February 19, 2008 from the Florida Board of Education and July 1, 2008 from SACS/COC.

Certification and Licensure for Program Graduates: All program graduates will be required to pass all sections of the Florida Teacher Certification Examination (FTCE) in order to receive licensure to teach in a PK-12 classroom.

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RECOMMENDED

**Broward College
Bachelor of Science in Teacher Education
Secondary Mathematics
Program of Study - Code S 500**

The Bachelor of Science (BS) program uses a 2+2 model requiring the completion of an associate's degree for entry into the program. The degree components are below. Students must be formerly accepted into the Teacher Education program to enroll in the courses.

BS in Teacher Education Degree Components	
Associate Degree Program of Study Credit (see admission requirements)	24 Sem. Hrs.
General Education Core Requirements Credit	36 Sem. Hrs.
BS Program of Study Credit	60 Sem. Hrs.
TOTAL:	120 Sem. Hrs.

Middle School Mathematics Courses		
EEX 3010	Introduction to Exceptional Student Education	3 Sem. Hrs.
EDP 4005	Educational Psychology	3 Sem. Hrs.
EDG 4410	Classroom Management	3 Sem. Hrs.
EDF 4430	Measurement Evaluation and Assessment in Education	3 Sem. Hrs.
EDF 3288	Instructional Strategies	3 Sem. Hrs.
RED 3360	Foundations of Reading	3 Sem. Hrs.
RED 3352	Reading in the Content Area	3 Sem. Hrs.
TSL 3080	ESOL Issues & Strategies I	3 Sem. Hrs.
MAS 2103	Linear Algebra	3 Sem. Hrs.
MAD 2104	Discrete Mathematics	3 Sem. Hrs.
MHF 4404	History of Mathematics	3 Sem. Hrs.
MTG 3212	Geometry	3 Sem. Hrs.
MAS 4300	Abstract Algebra with Introductory Number Theory	3 Sem. Hrs.
MAE 4330	Methods of Teaching Math in the Secondary School	3 Sem. Hrs.
MAE 3941	Interactive Middle School Mathematics Projects	3 Sem. Hrs.
MAE 3148	Teaching Middle School and Secondary School Practicum	3 Sem. Hrs.
MAE 4945	Student Teaching	9-12 Sem. Hrs.

RECOMMENDED COURSE SEQUENCE PLAN

First Semester	Sem. Hrs.	Prerequisites
EDP 4005 Educational Psychology	3	
RED 3360 Foundations of Reading (16 hours field work)	3	
MAS 2103 MAS 2103 Linear Algebra	3	MAC 1114, MAC 1140
TSL 3080 ESOL Issues & Strategies I (15 Hours field work)	3	
EDG 4410 Classroom Management & Communications	3	Prerequisite or co-requisite EDP 4005
Semester Credit Hours	15	
Second Semester		

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EEX 3010	Intro. to ESE (10 hours field work)	3	
EDF 4430	Measurement Evaluation and Assessment in Education	3	
MAD 2104	Discrete Mathematics	3	MAC 1140
EDF 3288	Instructional Strategies (10 hours field work)	3	Prerequisite or co-requisite EDP 4005
MAE 4330	Methods of Teaching Math in the Secondary School (20 hours field work)	3	
Semester Credit Hours		15	
Third Semester (Summer)			
MHF 4404	History of Mathematics	3	MAC 2311 and MAD 2104
MTG 3212	Geometry	3	MAD 2104
Semester Credit Hours		6	
Fourth Semester			
RED 3352	Reading in the Content Area (16 hours field work)	3	RED 3360
MAS 4300	Abstract Algebra with Introductory Number Theory	3	MAC 2311 and MAD 2104
MAE 3941	Interactive Middle School Mathematics Projects	3	MAE 4320
MAE 3148	Teaching Middle School and Secondary School Practicum (20 hours field work)	3	MAE 4320 or MAE 4330
Semester Credit Hours		12	
Fifth Semester			
MAE 4945	Student Teaching (35 hours per for 15 weeks)	9-12	Completion of all program requirements
Semester Credit Hours		9-12	
Total Semester Credit Hours		60	

General Education Core – The state-mandated 36 hours of general education (Communications-9 sch; Math-6 sch; Science-6 sch; Humanities-3 sch; Behavioral and Human (Social) Science-3 sch; Health & Wellness-3 sch; Political, Economic & Business-3 sch; Historical and Global-3 sch.

Mathematics Education students will need the following Lower division courses in order to meet the rigor of the upper division courses. It is recommended that these courses be taken as part of the General education required mathematics (6 credits and the 15 credits of general education electives. MAC 1105, MAC 1140, MAC 1114, STA 2023, MAC 2311, MAC 2312.

rev. 3-09-09

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