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# BROWARD COLLEGE

Define yourself.

To: Members of the Board of Trustees

From: J. David Armstrong Jr., President

Date: April 28, 1009

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

Subject: Agenda Item V-G-1-Curriculum Items-New, Revised, and Deleted Courses

**Brief Description:** Recommendations from March 2009 Curriculum Committee include New, Revised and Deleted Courses

**New Courses:**

Criminal Justice -- two courses per state training requirement mandate  
Culinary Arts Management-- seven courses  
Teacher Education Middle and Secondary Grades Mathematics BS-- eight courses  
(300-400 level).

**Course Revisions:**

Math -- one course, alignment of competencies with previously revised pre-algebra and elementary algebra.  
Physical Education-- one course title change.

**Course Deletions:**

Criminal Justice -- one course deleted per state training requirement mandate.

**Benefit to BC:** These new courses and course revisions keep BC in compliance with our accreditation mandates and industry trends.

**Relationship to College Master Plan:** Adjusting course requirements to comply with accreditation mandates and industry trends keeps Broward College's curriculum in position to support economic development in Broward County.

Board Agenda Approved: \_\_\_\_\_  
Date: April 2, 2009

Agenda Item V-G  
Enclosure 1

**BOARD OF TRUSTEES  
AGENDA TRANSMITTAL SHEET**

To: **President Armstrong**

Date: 04/02/2009

From: **Vice President Judith E. Scherer**


Subj: **Monthly Curriculum Committee Items**

Issue: **Curriculum Items: New, Revised and Deleted Courses**

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:** March Curriculum Items: New and Revised Courses

**DATE:** April 2, 2009

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**New Courses:** *(with indicated special fee totals, if applicable)*

Each of the following new courses were endorsed by the Curriculum Committee:

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## **CRIMINAL JUSTICE, POLICE ACADEMY**

### **CJK 0082 Traffic Stops**

This course presents the procedures and safety issues when dealing with the vehicle and driver in common circumstances of the law enforcement officer: Unknown Risk, High Risk, and Unattended Vehicles.

Clock Hours: 24

### **CJK 0083 DUI Traffic Stops**

Course is based on the current curriculum, as developed and approved by the Florida Department of Law Enforcement, Criminal Justice Standards and Training Commission.

Clock Hours: 24

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## **FOOD SERVICES, CULINARY**

### **FSS 1203C Quantity Food Production I**

Student will acquire the fundamental concepts, skills and techniques involved in the management of resources, use of recipes, use and care of equipment, and evaluation of food products. Special emphasis is given to practical demonstrations in breakfast cookery, salads, dressings, cold sauces, sandwiches, and safety and sanitation principles. Student must successfully pass written and practical cooking examination covering a variety of techniques and procedures.

Credit Hours: 3                      Lecture Hours: 32                      Lab Hours: 32

### **FSS 1246C Baking & Pastries I**

Students will acquire knowledge of the composition and properties of baking ingredients. They will utilize the proper equipment and tools, and standardize recipes to prepare yeast breads, rolls, pastries and cakes in the food service laboratory. The instructor will evaluate the products prepared based on established food service standards.

Credit Hours: 3                      Lecture Hours: 32                      Lab Hours: 32

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**FSS 2204C Quantity Food Production II**

This course will enable students to learn and execute various methods preparing vegetable, starch, meat, fish, and poultry cookery, including the basic cooking techniques: sautéing, roasting, poaching, braising and frying.

Credit Hours: 3                      Lecture Hours: 32                      Lab Hours: 32

**FSS 2205C Quantity Food Production III**

Students will focus on the knowledge and preparation of job descriptions. Students will utilize all commonly accepted methods of recruiting a successful staff. Menu selection, staffing, and balance will be studied. The course also emphasizes safety and sanitation procedures. Students will learn about common problems in hiring and supervising employees.

Credit Hours: 3                      Lecture Hours: 32                      Lab Hours: 32

**FSS 2247C Baking & Pastries II**

Students will continue to build knowledge of the composition and properties of baking ingredients. They will utilize the proper equipment and tools, and standardize recipes to prepare yeast breads, rolls, pastries and cakes in the food service laboratory. The instructor will evaluate the products prepared based on established food service standards.

Credit Hours: 3                      Lecture Hours: 32                      Lab Hours: 32

**FSS 2248C Garde Manager**

Students will acquire knowledge and demonstrate skills in the cold foods area of the kitchen. The key topics will include sausages, pats, terrines, cured and smoked foods, cheese making, hors d'oeuvres, appetizers, condiments, garnishing and ice carving.

Credit Hours: 3                      Lecture Hours: 32                      Lab Hours: 32

**FSS 2251 Food & Beverage Management**

Covers the principles and procedures involved in an effective food and beverage control system, including standards determination, the operating budget, cost-volume-profit analysis, income and cost control, menu pricing, theft prevention, labor cost control, and computer applications.

Credit Hours: 3                      Lecture Hours: 48

**MATHEMATICS, 3000-4000 LEVEL**

**MAE 3148 Interactive Middle School and Secondary School Math Practicum**

This course is designed to provide the student with the opportunity to apply learned concepts by observing and teaching small groups and whole class lessons in the mathematics classroom. Extensive Writing Component in the form of a journal is required. (40 structured school-based hours required).

Prerequisite: MAE 4320    Corequisite: MAE 3941

Credit Hours: 3                      Other: 40

**MAE 3941 Interactive Middle School Mathematics Projects**

This course is designed for students who are majoring in middle and secondary mathematics education and who will be obtaining teaching certification in grades 5-9 and 6-12. In this course students learn principles of effective curriculum design and assessment and apply these principles by designing and developing interactive mathematics curriculum projects for middle school students. This course requires structured clinical placement in which students present their projects in a middle school classroom environment. This course addresses specific Sunshine State Standards, subject matter competencies, and pedagogy pertinent to the discipline and required certification. (20 school-based hours required).

Prerequisite: MAE 4320    Corequisite: MAE 3148

Credit Hours: 3                      Lecture Hours: 32                      Other: 20

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**ENCLOSURE**

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**MAE 4320 Methods of Teaching Math in the Middle School**

This course is designed to introduce methods and strategies that have been proven to be effective for teaching middle school mathematics. This course will include topics in appropriate instructional techniques and selection of appropriate resources for diverse classroom activities. Additional topics include real world applications, the use of technology, understanding the diverse learner, multiple means of assessment and learning styles. In this course, the pre-professional educator learns principles of effective curriculum design and assessment and applies these principles by designing and developing interactive mathematics curriculum projects for middle school students. This course addresses specific Sunshine State Standards subject matter competencies and pedagogy pertinent to the discipline. (20 hours structured field experience required).

Prerequisite: Completion of 80% of all TEP core courses and 2000- level math content courses.

Credit Hours: 3                      Lecture Hours: 32    Other: 20

**MAE 4330 Methods of Teaching Mathematics in the Secondary School**

This course is designed to introduce methods and strategies that have been proven to be effective for teaching secondary school mathematics. Topics in appropriate instructional techniques and selection of appropriate resources for diverse classroom activities, real world applications, the use of technology, understanding the diverse learner, multiple means of assessment and learning styles. The pre-professional educator learns principles of effective curriculum design and assessment and applies these principles by designing and developing interactive mathematics curriculum projects for high school students. This course addresses specific Sunshine State Standards subject matter competencies and pedagogy pertinent to the discipline. (20 hours field experience)

Prerequisite: Completion of 80% all TEP core classes and 2000 level math content courses.

Credit Hours: 3                      Lecture Hours: 32    Other: 20

**MAE 4945 Student Teaching**

This course is designed to provide students with multiple opportunities to practice implementing the 12 Florida Educators Accomplished Practices including effective planning, instruction, management and assessment techniques in a real-world middle and high school classroom setting under the supervision of a certified teacher.

Prerequisite: Completion of all previous program course requirements.

Credit Hours: 12                      Lecture Hours: 12    Other: 420

**MAS 4300 Abstract Algebra with Introductory Number Theory**

A course for math and math education majors. Abstract algebra is designed for the student experienced with using mathematical calculations to solve problems, and who now wishes to analyze the underlying justifications for these calculations' legitimacy. The student will discover properties shared by seemingly disparate mathematical structures called groups, rings, and fields, by *abstracting* their common underlying features, and creating proofs based upon these commonalities. Number theory topics that are foundational to this course will be studied as well.

Prerequisites: MAC 2311 and MAD 2104

Credit Hours: 3                      Lecture Hours: 48

**MHF 4404 History of Mathematics**

The main aim of this course is to introduce the student to the study of the history of mathematics. The study will include the development of mathematics through history, the impact of mathematics on society and how mathematics has broadened our knowledge of the world. Throughout the course students will be shown and encouraged to discover connections to mathematics as it is applied today. The course is

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designed to be of interest to persons of various backgrounds. This will include math students who want to understand the development of mathematics, teachers of mathematics at all levels and those students who have an interest in social and cultural history.

Prerequisites: MAC 2311 and MAD 2104

Credit Hours: 3                      Lecture Hours: 48

### **MTG 3212 Geometry**

A course for math and math education majors. Geometry is a major foundation of our mathematical understanding of the world, and this course will explore both its breadth and depth. This course rigorously examines the axioms and theorems of both Euclidean geometry and the non-Euclidean geometries. The coordinate and translational geometries will be treated as well. This course is highly theoretical and proof-intensive. Thus some background with constructing direct proofs and proofs by contradiction is a necessary prerequisite to enrolling in this course.

Prerequisite: MAD 2104 or permission from the Mathematics Department.

Credit Hours: 3                      Lecture Hours: 48

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### **Revised Courses (with indicated special fee totals, if applicable)**

The following course revisions were endorsed by the Curriculum Committee:

## **MATHEMATICS**

### **MAT 1033 Intermediate Algebra**

~~A continuation of algebra containing topics such as factoring; operations with rational expressions; absolute values; exponents, radicals, and roots; complex numbers; linear and quadratic equations and linear inequalities; graphs; systems of equations; and functions, all with applications throughout the course. Certain sections of this course will use teaching software; such sections will occur in an automated and interactive environment. Meets three hours of elective credit for the A.A. degree. Suitable placement score or at least a grade of "C" in MAT 0024 (or MAT 0020) is required.~~

A course designed for students with strong arithmetic skills (without requiring a calculator) and an algebra background, including solving linear equations in one variable and factoring polynomials. This course will extend student's algebra skills to include solving radical, rational, quadratic, and absolute-value equations, and recognizing relationships between radical expressions and rational exponents. Complex numbers are introduced in this course as well. Problem solving involving real-life scenarios is an integral part of this course. In this course, students will enhance their problem-solving abilities, and their ability to communicate concepts of algebra in the language of mathematics, both orally and written.

Prerequisite: MAT 0024 or permission of the department of mathematics.

*Course description revised. This course revision is a continuation of an alignment of MAT 1033 (intermediate algebra) course competencies with the already revised competencies of MAT 0012 (prealgebra) and MAT 0024 (elementary algebra).*

Credit Hours: 3                      Lecture Hours: 48      (Special fee: \$20)

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**PHYSICAL EDUCATION**

**PEM 1116 ~~Slimnastics~~ Functional Wellness**

*The course title revision is intended to convey a more appropriate and relevant course description. This course title revision (listed as Slimnastics") was recommended to and approved by the Board on February 24, 2009. The course title should have been listed as "Functional Wellness". The Curriculum Committee is requesting that the correct course title be approved – "Functional Wellness: This new title better aligns the course with current trends in the wellness industry.*

Credit Hours: 2      Lecture Hours: 16      Lab Hours: 32      (Special Fee: \$2.00)

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**Deleted Course (with indicated special fee totals, if applicable)**

The following course deletion was endorsed by the Curriculum Committee:

**CRIMINAL JUSTICE, POLICE ACADEMY**

**CJK 0080 Traffic Stops**

*To meet state certification requirements of the Florida Department of Law Enforcement, Criminal Justice Standards and Training Commission, state certification requirements for law enforcement have changed. Course CJK 0080, Traffic Stops, 48 contact hours, was deleted and replaced with a reduced 24 clock hour course --CJK 0082.*

Clock Hours: 48

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ENCLOSURE

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