

**Motion to Modify, Add, or Drop a Course**  
**Undergraduate Curriculum Committee**  
**Fontbonne University**

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**Title of Motion:** Create a new course in the Department of Mathematics and Computer Science for elementary and special education majors called MTH 106 – Concepts in Mathematics: Geometry and Measurement

**Date Submitted:** February 11, 2011

**Submitted By:** Nancy English (with approval by Theresa Jeevanjee)

**Department/College:** Department of Mathematics and Computer Science

**Nature of Change:**             Modify Existing Course  
    Add a Course  
    Drop a Course

**It is moved that** the Department of Mathematics and Computer Science add a new course for elementary and special education majors, MTH 106, Concepts in Mathematics: Geometry and Measurement.

**Rationale of course modification, add, or drop:**

Currently, Fontbonne only offers one mathematics course specifically tailored for prospective elementary and special education students, who will later be teaching mathematics to students in the elementary schools. It is almost impossible to cover all of the topics that are essential for prospective mathematics teachers inside a single course. This proposed course would include the topics which are usually not explored in depth due to the restricted amount of time allotted within the confines of that current single course.

**Proposed Date of Implementation:** Spring 2012

**Course Information**

**Course Number and Title:** MTH 106, Concepts in Mathematics: Geometry and Measurement.  
**Credit Hours:** 3

**Format:**             Face-to-Face  
                                  Online  
                                  Blended

**Frequency of course offering:** Spring and Fall

<b>Required:</b>	<b>Elective:</b>	<b>GER:</b>
<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> Yes
<input type="checkbox"/> No	<input type="checkbox"/> No	<input type="checkbox"/> No

(This course would not be required by the Department of Mathematics and Computer Science, but would be required by the Department of Education/Special Education.)

**If adding course, continue.** *N/A for modifying or dropping a course.*

**a. Catalog description:**

Examines the structures and properties of mathematics through problem solving. Includes the study of geometry, measurement and probability and statistics. Intended for prospective elementary school teachers. Utilizes appropriate grade-level technology. (Students who have previously completed MTH 102, cannot receive credit for this course.)

**b. Prerequisites:** Grade of C- or better in MTH 104 or its equivalent.

**c. Project the enrollment each semester or term of offering:** 10 – 20 students

**d. Financial Impact (list amount and explanation if needed)**

**Faculty:** 1 new adjunct position (approximately \$2500 per semester)

**New library holdings:** None

**Equipment:** None

**Audio-Visual / software:** None

**e. Does proposed course replace current one:**

X When taken in combination with MTH 104, this course will replace the current MTH 102 that is required of elementary and special education majors.

**Effect of course change on the department offering the course and on other departments:**

**Does this change affect another department?** X YES  NO (Dept. of Education/Special Education)

**If yes, has/have the department(s) been consulted?** Yes

**If modifying course, continue.** *N/A for adding or dropping course.*

**If course title or description change, please provide current title and/or description and proposed new title and/or description.**

**Additional information:**

It should be noted that Fontbonne elementary education and special education students are woefully behind in terms of time spent working with mathematics compared to time spent working with language arts (11 credit hours vs. 35 credit hours). Other universities require 6 to 9 credit hours of mathematics specifically devoted to those students who will later be teaching elementary school mathematics. Fontbonne currently requires its prospective elementary teachers to take 6 hours of mathematics, but only 3 of those 6 hours are tailored specifically to the kind of mathematics with which future elementary teachers will deal. Fontbonne's prospective special education students are currently required to take a total of only 3 hours of

mathematics. There is no doubt that Fontbonne's prospective elementary and special education students are currently being short-changed with respect to their mathematics preparation.

If approved, distribute to the following:

Catalog

Registrar

Fontbonne Policy Manual Volume I

Advisors' Manual

Student Handbook

Part-time Faculty Manual

Staff Handbook

Other:

**Please note, all forms must be submitted to UCC by the Department Chair/College Dean.**