

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

Title of Motion: Create a new course in the Department of Mathematics and Computer Science for elementary and special education majors called MTH 104 – Concepts in Mathematics: Number Systems

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 104, Concepts in Mathematics: Number Systems.

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 in the elementary schools. It is almost impossible to cover all of the topics that are essential for prospective mathematics teachers in a single course. This proposed course would allow appropriate time for students to explore algebra and number systems, which are extremely important topics in elementary school mathematics.

Proposed Date of Implementation: Fall 2011

Course Information

Course Number and Title: MTH 104 – Concepts in Mathematics: Number Systems

Credit Hours: 3

Format: Face-to-Face
 Online
 Blended

Frequency of course offering: Spring and Fall

Required:	Elective:	GER:
<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> Yes	Yes
<input type="checkbox"/> No	<input type="checkbox"/> No	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, while focusing on the development of problem-solving skills. Includes the study of sets, functions, whole numbers, fractions, number theory and integers. Considers applications of rational numbers, decimals, and percents. 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 095, or competency in arithmetic and algebra.

c. Project the enrollment each semester or term of offering: Approximately 20

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

Faculty: No new faculty will be required.

New library holdings:

Equipment:

Audio-Visual / software:

e. Does proposed course replace current one:

X Yes If yes, which one and why?

When taken in combination with MTH 106, 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.

Note: If this proposed course modify/add/drop affects a change in major, minor, concentration, or certificate, also submit a Motion to Modify a Program form.

If approved, distribute to the following:

X Catalog

X 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.