

## EDUCATION 487-4

### SPECIAL TOPIC: MUSIC ACROSS THE CURRICULUM

Spring Semester, 1990  
Thursday, 4:30 - 8:20  
Location: MPX 7610

Instructor: Dr. R. Walker  
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Office: MPX 8635

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**Prerequisite:** Educ. 401/402 or permission of instructor.

#### **Course Description:**

The integration of music with mathematics, language arts, visual art, social studies, science, drama, and movement is the focus of the course content. This content will be designed so as to provide a series of classroom projects in subject integration which the teacher can apply directly to his/her teaching situation.

#### **Course Objectives:**

- a) To provide substantive content to curriculum integration by means of careful selection of project work which utilises concepts which are genuinely common to both music and other subjects.
- b) To provide teachers with ample curriculum materials for the classroom implementation of integration.
- c) To provide teachers with an understanding of common concepts across different subjects. For example: western musical scales are based on Pythagorean proportions. In order to understand the construction of these scales (i.e., major and minor), and melody and harmony resulting from them, it is necessary to understand mathematical proportions. Pythagoras saw melody as the concretization of mathematical proportions. A study of proportions in mathematics is, therefore, directly applicable to musical melody and harmony. There is a great deal of practical work which can be carried out in both subject areas. Another example would be between visual art, language arts and music (all three). Here is reference to the notion of Aristotle's unity of the senses, in particular the work of Lawrence Marks of Yale where he had found biological as well as psychological evidence for the Unity of the Senses in language, music and visual art. These examples indicate the underpinning of theory I am using, and the kind of activities which teachers will engage in. All through the course there will be reference to both works of art in literature, visual art and music, and children composing, writing and painting/drawing.
- d) It is intended to cover the grades from K - 7.

#### **Course Requirements**

Lectures, seminars, and practical activity will comprise the nature of the course. The preparation of teaching materials based on the content will form the main goal.