

## MATHEMATICS EDUCATION

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### Course (MTHED)

Refer to Curricula and Courses and University Policies sections of this bulletin for explanation of the course numbering system, unit or credit hour, prerequisites, and related information.

#### LOWER DIVISION COURSE (Intended for Undergraduates)

**NOTE:** Proof of completion of Entry-Level Mathematics requirement required for Mathematics 118, 120, 121, 122, 141, 150, 210, 211: Copy of ELM score or verification of exemption.

#### MTHED 212. Children's Mathematical Thinking (1-1.5)

Prerequisite: Credit or concurrent registration in Mathematics 210.

Children's mathematical thinking and in-depth analyses of children's understanding of operations (addition, subtraction, multiplication, and division) and place value. Students will observe individual children solving mathematics problems. Real, compact disc, and/or web-based experience included.

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## MUSIC

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### Courses (MUSIC)

Refer to Curricula and Courses and University Policies sections of this bulletin for explanation of the course numbering system, unit or credit hour, prerequisites, and related information.

#### LOWER DIVISION COURSE

#### MUSIC 102. Basic Musicianship for Non-Music Majors (3)

Two lectures and two hours of activity.

Rudimentary music theory involving the elements of music: melody, rhythm, and harmony. Developing the understanding of these elements through instrumental and vocal experiences which include the use of unison and part-singing, the keyboard, and simple melodic and harmonic instruments. Not open to students with credit in Music 105A.

#### UPPER DIVISION COURSE (Intended for Undergraduates)

#### MUSIC 343. Music Literature for Children (3) I, II

Prerequisite: Music 102 or 205B.

Analytical study of music suitable for children of all ages. Background information, musical structure and functions of this music in the lives of children.

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## NATURAL SCIENCE

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### Courses (N SCI)

Refer to Curricula and Courses and University Policies sections of this bulletin for explanation of the course numbering system, unit or credit hour, prerequisites, and related information.

#### UPPER DIVISION COURSES (Intended for Undergraduates)

#### N SCI 333. Technology and Human Values (3)

Prerequisite: Completion of the General Education requirement in Foundations II.A., Natural Sciences and Quantitative Reasoning.

Development of technology from the Middle Ages to present. Ethical, moral, social, cultural, and organizational implications as to how societies acquire technology.

#### N SCI 412. Processes and Inquiry in the Physical Sciences (4) I, II

Three lectures and two hours of activity.

Prerequisite: Completion of the General Education requirement in Foundations, II.A. Natural Sciences and Quantitative Reasoning.

Investigation of processes of inquiry and rational thinking skills characteristic of the physical sciences. (Formerly numbered Natural Science 412A.)

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