

MATHEMATICS EDUCATION

Course (MTHED)

LOWER DIVISION COURSE (Intended for Undergraduates)

(Intermediate algebra is prerequisite to all mathematics courses.)

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.

MUSIC

Courses (MUSIC)

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.

NATURAL SCIENCE

Courses (N SCI)

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. Recommended: Natural Science 100.

Technologies such as solar and fusion power, lasers, computer services, transport, synthetic food and their impact on values and lifestyles of developed countries. Characteristics of post-industrial society, future shock and biological revolution. Curve extrapolation and simulation by games and computer.

N SCI 412A. Processes and Inquiry in the Natural 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 sciences.

A. Physical Sciences
