



Faculty

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ABOUT BENEDICTINE UNIVERSITY

Benedictine University is located in Lisle, Illinois, just 25 miles west of Chicago. Founded in 1887 by the Benedictine Monks of St. Procopius Abbey, Benedictine provides 45 undergraduate majors, 11 graduate programs, a world-renowned Ph.D. in Organization Development and an Ed.D. in Higher Education and Organizational Change. Benedictine has repeatedly been named one of the top schools in the Midwest Region and ranked eighth in the Midwest for Campus Diversity by *U.S. News & World Report*® for 2007. For more information, call the Enrollment Center at (630) 829-6300, e-mail admissions@ben.edu or visit www.ben.edu.

Benedictine University is accredited by the Higher Learning Commission of the North Central Association of Colleges and Schools.

Benedictine University
5700 College Road • Lisle, Illinois 60532

2007-2008



Master of Science in
Science Content and Process
(M.S.S.C.P.)



Benedictine
University



Benedictine University, in partnership with Brookfield Zoo, Fermilab, the Forest Preserve District of DuPage County, The Morton Arboretum, and the Golden Apple Foundation, offers a Master of Science degree program in Science Content and Process.

This program is unique in that courses are taught at Benedictine University and the partner organizations. Participants in the program are immersed in learning opportunities available at each of these sites and will complete research internships with scientists at the host organizations in order to better understand the process of science and the rewards for doing it well.



Program Overview

The Master of Science in Science Content and Process program provides K-8 teachers and other science educators integrated content knowledge in general science utilizing the resources of the local scientific community. Participants will use the pedagogy of inquiry-based learning and knowledge of technology to create an effective teaching/learning environment for science education. This program is intended for those teachers who want to increase their science knowledge and confidence in science teaching.

Designed for the working professional, the degree program is taught in a cohort model that meets evenings and some Saturdays during the academic year. Day courses take place during the summer. Teachers can manage full-time employment while completing the degree in two years. Each cohort begins the third week of June.

There is only one cohort of 24 students each year. Admission to the program must be completed before the first course begins in June. Applicants must hold a valid teaching certificate or work as a science educator.

Program Objectives

- Integrate general science content using themes of regional biodiversity and systems interactions.
- Provide content based on national and Illinois science learning standards.
- Develop inquiry-based teaching practices that promote learning of scientific content.
- Build self confidence in science knowledge and teaching.
- Understand and use technology in investigations and analysis.
- Increase the use of the educational facilities of the partnership organizations.



Curriculum

The program requires 33 semester credit-hours of graduate coursework.

Core

- MSSCP 501 Pedagogy of Inquiry
Science Teaching
- MSSCP 503 Nature of Science
- MSSCP 504 Research Internship



Content

- MSSCP 510 Zoology
(Brookfield Zoo)
- MSSCP 512 Animal Behavior
(Brookfield Zoo)
- MSSCP 514 Plant Functions and
Adaptations
(The Morton Arboretum)
- MSSCP 515 Field Ecology
and Management
(Forest Preserve District
of DuPage County)
- MSSCP 518 Prehistoric Life (Forest
Preserve District
of DuPage County)
- MSSCP 520 Basic Physics (Fermilab)
- MSSCP 522 Astronomy (Fermilab)
- MSSCP 524 Human Biology
and Nutrition
(Benedictine University)



Criteria

Students must:

- Be teaching in an elementary or middle school or employed as an informal science educator.
- Have a computer and cable modem or DSL Internet access at home.
- Be able to day attend classes during the summer and evening and some Saturday classes during the school year.

*For additional information, contact John Mickus, director,
at (630) 829-6539 or jmickus@ben.edu.*

**“Teachers can use the
unique, high quality courses
in this program to improve
their science knowledge.
Discovering that science
is fun is contagious—their
enthusiasm for science will
spill into their classrooms.”**

**John Mickus, M.S.S.C.P. program
director, Benedictine University**