wide variety of vocations ranging from farming to law and the ministry. About 6% are still
in degree programs, about 3/4 of these in the Health Sciences, 1/4 in Biology graduate
programs. The foreign studies components offered by the college have strongly influenced
the vocational choices of many of the graduates in the last 20 years; many of them
continuing graduate or professional training related to an interest developed in foreign
study programs. For example: several students have continued studies with bats from their
natural history studies in Yucatan; one student began working with fish species of the
cenotes (isolated water holes in the limestone sinkholes) of Yucatan; several students have
entered medical school with plans to practice medicine abroad; and, several students have
chosen marine biology as a result of work in the ocean habitats of the several foreign study
programs.

At present the Biology Department consists of four persons; Ph.D.'s in Botany/Plant
Pathology, Vertebrate Natural History/Ecology, Invertebrate Biology, and Physiology/Cell
Biology. The curriculum is rather standard for those familiar with offerings of Liberal
Arts Colleges; the principal distinction coming in the foreign study components and the
opportunities for internships in the Urban Studies Program, and other research internships
in business, industry, scientific laboratories, museums, and botanical/zoo logical gardens.

Central's science building, The Vermeer Science Center, has been called the "Liberal
Arts College answer to the Little Red Schoolhouse." Principal feature of VSC is the large
multipurpose laboratory with support labs, classrooms, stockroom, and instrument labs
adjacent to or in proximity with the multipurpose laboratory. In an admittedly reduced
space, the teaching programs have lived up to expectations and desires to reduce the
barriers between the science disciplines. During our five years in VSC there has been an
increase of cross-departmental course selection and a decidedly greater feeling of "science
graduates" rather than narrowly specialized biologists.

Like many quality liberal arts programs, Biology at CUI requires an independent study
(research effort) at the senior level supported by a Research & Design Seminar and three
other seminar experiences prior to graduate. Both by design and fiat it appears that
Central's students will continue to enter a broad spectrum of vocations, and there are no
pre-professional ties to any particular vocational area.

BIOLOGY AT NORTHERN ILLINOIS UNIVERSITY
Jack Bennett, Professor of Biology

The Department of Biological Sciences offers the Bachelor of Science, Master of Science
and Doctor of Philosophy degrees in Biology with research areas including behavior,
biochemistry, botany, cell and tissue culture, cell ultrastructure, development, ecology,
endocrinology, evolution, genetics, immunology, microbiology, molecular and cellular
biology, physiology, radiation biology, systematics, and zoology. The department has
cooperative research and study arrangements with the departments of Geology, Chemistry
and Psychology at NIU as well as with Argonne National Laboratory, the Field Museum of
Natural History, Shedd Aquarium, Brookfield Zoo, Morton Arboretum and DeKalb AgResearch
Inc./DeKalb-Pfizer Genetics. In addition field study areas are available at several
University owned preserves and natural areas.

Undergraduate majors take two years of chemistry, a year of physics and calculus as
prerequisites for their biological studies. They take a common core of biology classes,
including zoology, botany, microbiology, genetics, cell structure, function and heredity,
physiology, and ecology plus a few electives from a large selection of advanced courses at
the junior and senior levels.
MS candidates may specialize and write a thesis, or take a wide distribution of classes with the non-thesis option. All must take biostatistics and seminar and stand a final oral examination on their work.

The PhD candidate may continue on from an MS or may elect to pursue the degree directly, after demonstrating a satisfactory level of performance in graduate work at Northern.

The faculty of 37 includes the following involved in research and graduate work:

- Jack Bennett
- W.E. Briles
- Thomas P. Conway
- Mason G. Fenwick
- Elon W. Frempton
- William A. Garthe
- David W. Greenfield
- T. Daniel Griffiths
- James H. Grosklags
- Arnold Hampel
- Laszlo Hanzely
- developmental
- Malcolm T. Jollie
- Florence Ledwitz-Rigby
- Wayne J. McClrath
- R. Meganathan
- Peter L. Meserve
- ecology,
- John L.A. Mitchell
- Sidney Mittler
- Cynthia Nyquist-Battie
- neuropharmacology
- K.V. Prahlad
- O.A. Schjeide
- Paul D. Sorensen
- William E. Southern
- Marvin J. Starzyk
- Ronald Toth
- Patricia S. Vary
- Carl Von Ende
- Bruce Von Zellen
- Jerrold H. Zar
- analysis

- population and behavior genetics
- immunogenetics, physiological genetics, immunology
- immunology, membrane biology
- fresh-water algae
- microbiology, molecular biology
- insect physiology
- ichthyology, biosystemsatics, zoogeography, marine biology
- radiation biology, molecular biology
- mycology
- molecular and cellular biology, biochemistry
- ultrastructural plant anatomy and cytology, botany
- comparative anatomy, evolution, systems
- reproductive endocrinology
- plant physiology
- microbial physiology
- mammalogy, population, community and behavioral biogeography
- cell physiology
- genetics, mutagenesis
- developmental neurobiology, neuro-chemistry,
- developmental biology
- cell growth and differentiation
- plant systematics and taxonomy
- ornithology, wildlife ecology
- water microbiology, pathogenic microbiology
- developmental botany
- microbial genetics
- population and community ecology, aquatic ecology
- parasitology, protozoology
- ecological animal physiology, biostatistical

The department has access to the university computers through terminals in Montgomery Hall and also has several small computers in various research laboratories.

Brochures describing the programs in more detail and answers to more specific questions may be obtained by writing: Department of Biological Sciences, Northern Illinois University, DeKalb, Illinois 60115-2854 or by calling: (815) 753-0433.