M.S. IN ENVIRONMENTAL SCIENCE
FIVE-YEAR PROGRAM

The Master of Science in Environmental Science is designed for current and prospective students in the rapidly growing field of environmental monitoring and conservation. This five-year program leads to both a Bachelor of Science and a Master of Science in Environmental Science, and provides a solid background in ecological and environmental conservation theory.

This degree program is flexible enough to fit the interests and needs of a wide variety of students and is designed for students planning to pursue a Ph.D. or students interested in careers involving environmental assessment, monitoring or conservation.

How and When to Apply

After completion of 65 credit hours of undergraduate study, the student submits the application to the Five-Year BS/MS Program no later than February 1 of the junior year. The *Application for Admission to the Five-Year Program* is available at: cnu.edu/admission/graduate/fiveyear. The application and all supporting documents/materials are reviewed by a Graduate Admission Committee and the Office of Graduate Studies.

Admission Requirements

Criteria for student admission into a five-year program:

a) Undergraduate cumulative GPA of 3.0 or higher. Transfer students must demonstrate at least 12 hours of earned credit at CNU with a GPA of 3.0 or higher.

b) GPA in the student's major of at least 3.0.

c) Submission of one of the following (must be less than five years old):
   i) The SAT taken prior to March 1, 2016 a score of 1100 with at least 530 on the Verbal section and 530 on the Math section;
   ii) The SAT taken on or after March 1, 2016 a score of 1170 with at least 580 on the Evidence- based Reading & Writing section and at least 560 on the Math section.
   iii) ACT Score of a composite score of 24, with the ACT math score no less than 22, and an English plus Reading score no less than 46;
   iv) Graduate Record Examination (GRE) score of at least 295 for Verbal and Quantitative sections combined. It is highly desirable to have a reasonably balanced score between the Verbal and Quantitative sections. Those with a combined score of 300 or above should experience success in the graduate program.

d) Two completed recommendation forms are required. One must be from a faculty member in the major who has taught or mentored the student in a major course or research project.

e) Identification of a thesis advisor and submission of a completed Procurement of a Thesis Advisor form. Prospective students should contact faculty members with similar research interests to determine if they are accepting new graduate students and are encouraged to speak with the Graduate Program Director if they need assistance selecting a faculty member to contact. Students will only be admitted into the program if a faculty member has formally agreed to serve as the thesis advisor.

f) Students will also provide evidence of satisfactory completion of a broad background if undergraduate courses including, yet not tlimited to: cellualr biology, molecular biology, organismal biology, ecology, genetics, and statistics, as well as complete sequences of general and organic chemistry.

Five-Year Undergraduate Program Requirements

a) Upon acceptance into the five-year program, students work with their academic advisors and the Graduate Program Director to determine a specific Plan of Study. Students begin taking graduate courses in their senior year at CNU.

b) To continue in the five-year program a student must maintain a 3.0 GPA, and remain in good standing by earning a grade of *B-* or better in any graduate course taken while in the undergraduate status.

c) Upon completion of the normal requirements in the student's undergraduate program, a bachelor's degree will be awarded to the student.

Graduate Course Hours

Graduate credit hours taken as a five-year B.S./M.S. undergraduate are subject to the following requirements:

a) A maximum of twelve (12) hours of credit will be allowed while classified as an undergraduate.
b) All courses must be approved by the student's advisor and be part of the student's Plan of Study.
c) The student will be held to the same standards in these classes as a graduate student.
d) To continue to take graduate courses as an undergraduate, a student must complete each course with a grade of *B-* or better.
e) If a graduate course is used to satisfy a requirement of the undergraduate major then the student must get the course substitution approved by the department chair to substitute the graduate course for a required course in the major. Any graduate-level course used to satisfy undergraduate major requirements and/or to satisfy the required 120 credits for an undergraduate degree will not be eligible to be transferred to the graduate transcript.
f) Five-year students are required to do the thesis option in order to complete the curriculum within the five years.
g) Students in the five-year program who have taken graduate courses as undergraduates beyond the 120 credits required for the undergraduate degree will have up to 12 graduate credits moved to their graduate transcripts.
h) **The minimum number of credit hours on the graduate transcript must total at least 30 overall. A minimum of 18 hours must be earned while in graduate status.**

Example of Five-year Course of Study

Five-year student takes 12 graduate credit hours while in undergraduate status

Undergraduate Status

Graduate courses taken in senior year (12 credits to be moved to graduate transcript)	12 credits
Undergraduate course hours	120 credits
Total	132 credits

Graduate Status

Graduate course hours transferred from undergraduate transcript	12 credits
Summer	2 credits
Fall	10 credits
Spring	6 credits
Total for MS in ENVS	30 credits

MASTER OF SCIENCE IN ENVIRONMENTAL SCIENCE
FIVE-YEAR PROGRAM OF STUDY

Core Courses (6 credits)

ENVS 505	Technical and Scientific Writing (3)
ENVS 510	Biometry (3)

Concentration Courses (18 credits)

ENVS 518	Biological Conservation: Theory & Practice (3)
ENVS 519	Restoration Ecology (3)
ENVS 522	Summer Field Studies (2)
ENVS 525	Environmental Regulations (3)
ENVS 530	Biogeography (3)
ENVS 532/532L	Wetlands Ecology & Lab (4)
ENVS 534/534L	Marine Ecology & Lab (4)
ENVS 535/535L	Ornithology & Lab (4)
ENVS 536/536L	Terrestrial Ecology & Lab (4)
ENVS 538/538L	Limnology and Aquatic Biology & Lab (4)
ENVS 540/540L	Environmental Microbiology & Lab (4)
ENVS 545/545L	Mammalogy & Lab (4)
ENVS 550	Global Change (3)
ENVS 555/555L	GIS & Spatial Analysis Techniques & Lab (4)
ENVS 575	Seminar in Scientific Communication (3)
ENVS 590	Topical Seminars in Environmental Science (1-4 cr.)
ENVS 595	Advanced Topics in Environmental Science (1-3 cr.)
ENVS 599	Independent Study (1-3 cr.)
ENVS 690	Evidence-Based Decision Making in Environmental Science (3)
CHEM 535	Nanochemistry and Nanotechnology (3)
CHEM 543	Atmospheric Chemistry (3)
CHEM 545/545L	Instrumental Methods in Environmental & Lab (4)
CHEM 560	Polymer Chemistry (3)
CHEM 565	Environmental Chemistry (3)
CHEM 570	Advanced Organic Chemistry (3)
CHEM 580	Chemical Spectroscopy (3)
CHEM 599	Independent Study (1-3 cr.)

Thesis (6 credits)

ENVS 699	Thesis Research

Total for MS in ENVS
Five-Year Program of Study **30 credits**