

# COLLEGE OF LIFE SCIENCES AND AGRICULTURE

Jon M. Wraith, Dean

Kimberly J. Babbitt, Associate Dean

Theodore E. Howard, Associate Dean

The College of Life Sciences and Agriculture (COLSA) provides students a fundamental education in the agricultural, biological, life, natural, and social sciences. Advanced technical and professional courses are offered to prepare students for graduate school or entry-level positions in their chosen field. Preparation can vary from fundamental studies of cancer cells to community service planning, resource protection to genetic engineering, and molecular biology to biotechnology.

A blend of Discovery and foundational science courses, careful selection of supportive upper level courses, and ample opportunities to engage in internships, research, and study abroad experiences ensures graduates develop the background and experiences necessary to be competitive in the job market. Potential employers include federal, state, and local governments, consulting firms and industrial organizations. Graduates are employed as watershed, soil, and natural resource managers, associates in biomedical and agricultural research laboratories, marketing analysts and extension specialists, nutrition supervisors and environmental regulators, and information educators and communication experts. Community governments employ graduates as service planners and land-use specialists, teachers in traditional education, public health technicians, and urban pest control specialists. Positions are available in private and commercial organizations in production agriculture, food processing, landscaping, agribusiness, sales, and private planning. Graduates may also pursue entrepreneurial careers.

Additionally, COLSA prepares students for advanced study in their chosen field of interest where graduate study is required for attaining their career goals.

## Degrees

The college offers three undergraduate degrees: the bachelor of arts, the bachelor of science, and the bachelor of science in forestry. Some of the courses prescribed in these degree programs partially fulfill the University's Discovery requirements. Students should see their advisers for specific information.

## General Science Certification

Students majoring in biochemistry, molecular and cellular biology, biomedical science, biology, environmental conservation and sustainability, environmental sciences, forestry, wildlife and conservation biology, or zoology may seek certification to teach science at the middle, junior, or high school level.

For further information, contact the coordinator of teacher education in the Department of Education.

## Academic Advising

A member of the faculty whose area of interest is closely related to the student's is appointed as an adviser to assist the undergraduate in planning his or her academic program. Further advising is also available in the dean's office, Rudman Hall.

## Undeclared Status

Students may select a major upon entering the college or wait until registration for the sophomore year. Students who are uncertain about choosing a specific major may remain undeclared during their freshman year. In most cases, they should take the following courses, after which they should be ready to declare a major:

Course	Title	Credits
<b>Fall</b>		
LSA 400	Freshmen Seminar	1
BIOL 412	Introductory Biology: Evolution, Biodiversity and Ecology	4
CHEM 403	General Chemistry I	4
Discovery Program requirement		4
Discovery Program Requirement or an introductory course in any department in the college		4
Credits		17
<b>Spring</b>		
BIOL 411	Introductory Biology: Molecular and Cellular	4
CHEM 404	General Chemistry II	4
MATH 424B	Calculus for Life Sciences	4
Discovery Program requirement		4
Credits		16
Total Credits		33

Undeclared freshmen should explore possible majors by taking courses in the areas or programs that interest them most. They should talk to faculty, students, and their adviser concerning requirements, job opportunities, etc. in the various programs and should be prepared to declare a major when they register for the first semester of the sophomore year.

## UNH-EcoQuest New Zealand Study Abroad Program

The Department of Natural Resources and the Environment offers highly motivated students the opportunity to study abroad through the UNH-EcoQuest New Zealand applied field studies program. Students engage in a unique multidisciplinary, research-oriented program and receive grade-point average credit for a semester abroad. Four fully integrated courses (NR 660 Ecology and Biogeography of New Zealand, NR 661 Restoration Ecology and Ecosystem Management in New Zealand, NR 662 Environmental Policy, Planning and Sustainability in New Zealand, and NR 663 Applied Directed Research in New Zealand for 16 credit hours) focus on the ecological, resource management, and conservation and sustainability issues important to the natural environment, economy, and culture of New Zealand. Alternatively, students may participate in a two-course (NR 660 Ecology and Biogeography of New Zealand, NR 662 Environmental Policy, Planning and Sustainability in New Zealand for 8 credits hours) summer session. Contact Donna Dowal, (603) 862-2036.

## Degrees

### Bachelor of Arts

The bachelor of arts degree is available in Sustainable Agriculture and Food Systems, and Zoology. Students must accumulate 128 credits, attain a 2.0 cumulative grade-point average, satisfy Discovery requirements, and complete a foreign language requirement (see University Academic Requirements for specific B.A. language

requirements). Check individual departmental listings for specific major requirements and minimum acceptable grades in major courses.

## Bachelor of Science

The bachelor of science degree is available in all departments or programs. University requirements are the same as for the bachelor of arts degree, except that a foreign language is not required and minimum acceptable grades may differ in some programs. Check individual departmental or program listings for specific major requirements.

<https://colsa.unh.edu/>

## Departments

- Agriculture, Nutrition, and Food Systems (<http://catalog.unh.edu/archives/2018-2019/undergraduate/life-sciences-agriculture/programs-study/agriculture-nutrition-food-systems>)
- Biological Sciences (<http://catalog.unh.edu/archives/2018-2019/undergraduate/life-sciences-agriculture/programs-study/biological-sciences>)
- Molecular, Cellular, and Biomedical Sciences (<http://catalog.unh.edu/archives/2018-2019/undergraduate/life-sciences-agriculture/programs-study/molecular-cellular-biomedical-sciences>)
- Natural Resources and the Environment (<http://catalog.unh.edu/archives/2018-2019/undergraduate/life-sciences-agriculture/programs-study/natural-resources-environment>)