

THOMPSON SCHOOL OF APPLIED SCIENCE

www.thompsonschoo.unh.edu

Regina A. Smick-Attisano, Director
Cynthia Giguère, Assistant Director

Associate in Applied Science

Applied Animal Science

Dairy Management
Equine Management
Small Animal Care

Applied Business Management

Business Management

Civil Technology

Architectural Technology
Construction Management
Surveying and Mapping

Community Leadership

Food Services Management

Culinary Arts
Dietetic Technology
Restaurant Management

Forest Technology

Forest Technician

Horticultural Technology

Landscape Operations
Ornamental Horticulture

The Thompson School of Applied Science, established in 1895, is a division of the College of Life Sciences and Agriculture offering the associate in applied science degree and 14 program specializations. Curricula comprise a balance of professional, science-related, and general education applied courses that prepare students to meet the specific demands of a technical or applied profession, continuing education, and the general demands of life.

Faculty members at the Thompson School have significant work experience in industry and business; extensive and up-to-date knowledge of their specialties; ongoing contacts with practicing professionals; dedication to students and to excellence in teaching; and a commitment to practical, science-based education. They work closely with students, providing academic advising, career counseling, and special assistance, even outside the classroom, when needed.

Located at the western entrance to campus, the Thompson School's classrooms, laboratories, and working enterprises are designed for career-related experience under realistic conditions.

Barton Hall contains an animal science lab, a food preparation lab, a state-of-the-art grooming facility, several classrooms, faculty offices, and a student lounge.

Cole Hall includes a 150-seat lecture auditorium, a commercial kitchen and dining area, a student study and lounge area, a computer laboratory, a small classroom, and administrative offices.

Putnam Hall houses an architecture lab, a surveying and mapping lab, a Geographic Information System (GIS) lab, a computer-aided design (CAD) laboratory, an agricultural mechanization shop (welding, engines), forestry and multi-use classrooms, and faculty offices.

More detailed information on our various programs follows.

- Whether the specialty is dairy, equine, or small animals, students in *Applied Animal Science* utilize professional facilities both on and off campus. On-campus facilities include the Thomas P. Fairchild Dairy Teaching and Research Center, UNH's equine facilities, and the Thompson School Grooming Shop. Our small animal care program partners with the New Hampshire SPCA.

- *Applied Business Management* students enjoy the combination of academic and industry-based education and training in all aspects of managing and/or owning small- to medium-sized businesses and organizations.

The N.H. Seacoast Area business community serves as our working laboratory for students, who observe operations, conduct interviews, and perform a wide variety of business analyses with local merchants, entrepreneurs, and other community leaders.

- *Civil Technology* students have a variety of classroom experiences, ranging from an in-lab materials testing facility to two Civil Technology computer facilities with 24-hour, 7-day access that features the latest software for surveying and mapping, and architectural and computer-aided design. GPS (Global Positioning System) software also is available. The Civil Technology suite of spaces provides a ready access to learning and development.

- Students majoring in *Community Leadership* gain enriching experiences working with organizations such as Families First, the N.H. Housing Partnership, the Red Cross, New Hampshire Public Television, and on-campus groups. Students are involved with creating, operating, and evaluating these service-learning activities.

- *Culinary Arts students* are engaged in a carefully designed curriculum combining theory with more than 700 hours of practical application of culinary techniques in state-of-the-art production kitchens located on UNH's campus. Students are also required to complete a summer work experience of a minimum of 400 hours at a pre-approved establishment between their first and second years of study.

- *Dietetic Technician* students complete course work in food and nutrition sciences and general education. Students apply what they learned outside the classroom, making a positive impact on the lives of others through 450 hours of supervised practice which includes activities such as working as part of the health care team to provide nutrition services to hospitalized patients, providing nutrition activities to preschool children at Headstart, or teaching food insecure people in Operation Frontline classes how to eat healthy on a limited budget.

- **Forest Technology** students integrate all aspects of forest management as they complete projects on more than 3,000 acres of University land. Using the school's sawmill and harvesting equipment, they contribute to the sustainable management of UNH lands. In the classroom and in the forest they develop skills and techniques in boundary surveying, mapping, forest inventory, forest planning, reforestation, and forest land protection.
- **Horticultural Technology** students have the use of the Thompson School horticultural facility, with glass and poly covered greenhouses, propagating facilities, refrigerated compartments, display gardens, and the campus arboretum.
- **Restaurant Management** students receive a balance of management theory and practical experience. Operation of on-campus restaurants, special events and functions offer students hands-on opportunities to gain confidence and experience. Students are also required to complete a summer work experience of a minimum of 400 hours at a pre-approved establishment between their first and second years of study.

Associate in Applied Science

To graduate with an associate in applied science degree, a student must complete specified coursework in general education, technical specialization, and general electives (see the following section), with an overall grade-point average of no less than 2.0. In addition, students must earn the minimum number of total credits required for each specialization.

General Education

These are courses designed for personal and professional development with special emphasis on the ability to think critically, to communicate effectively, to understand computer technology, and to process quantitative data. In addition, they serve to acquaint the student with some of the major modes of thought necessary to understand oneself, others, society, and the environment.

In this area a student must complete:

- one course in computer literacy for a minimum of one credit hour;
- one course in mathematics (minimum of three credit hours);
- two to three courses in communications, to include COM 209, Expository Writing and Reading, plus elective(s) for a minimum of six credit hours;

- two to three courses in social sciences, the arts, or the humanities, to include either SSCI 201, Human Relations, or SSCI 202, Social Issues, plus an elective (minimum of six credit hours).

Technical Specialization

These are courses designed to develop the necessary scientific knowledge, technical skills, and practical experience required for employment in a professional discipline. Each student must complete all technical courses specified in the selected program of study.

See the following Programs of Study sections for course requirements and descriptions.

General Electives

This component of the degree program allows the individual to pursue courses of personal or professional interest. In this area, a student may choose a number of courses in each program of study specified as electives. These may be chosen from courses offered by the Thompson School or from selected University undergraduate courses with adviser and administrative approval.

Full-Time and Part-Time Programs

The associate in applied science degree at the Thompson School can be completed by pursuing either a full-time or part-time program. Most students enroll in the full-time program. This allows completion of a program of study in four semesters (the traditional two-year period). The sequence of required courses and semester schedules for each program are defined throughout this catalog.

Some students who cannot attend on a full-time, two-year schedule or who wish to spread the financial investment of a college education over a broader period, elect the option of part-time study. This allows students to work toward completion of the degree over an extended period, typically two calendar years to five academic years. The schedule can be shortened or lengthened to meet the needs of the individual student. For further information, please contact the Thompson School at (603) 862-1025 or (603) 862-3115.

Admissions

The Thompson School welcomes applications from both recent high school graduates and adult students.

High school students who plan to enter the Thompson School after graduation will be considered on the basis of high school course selection, class rank, and high school

recommendations. Emphasis is placed on the applicant's academic achievement, personal motivation, demonstrated interest in a career field, and preparation for Thompson School programs.

All traditional-age students must submit the results of the Scholastic Assessment Test (SAT-I) electronically. Adult students who have been out of high school for a number of years may request that the Office of Admissions waive the SAT-I requirement.

For an adult student who graduated from high school several years ago, the Office of Admissions will consider not only his or her academic record but also accomplishments since high school. Important factors will include professional work and advancement and motivation to succeed in Thompson School courses. In addition, applicants will be considered on the basis of any available test scores such as General Education Development (GED), Scholastic Assessment Test (SAT-I), and College Level Examination Program (CLEP); letters of reference; previous college study; and military record (if applicable).

A number of Thompson School specializations require satisfactory work in specific high school preparatory courses. These admission requirements are listed under each career specialization in this catalog.

How to Apply

All first-year and transfer applicants to UNH's Thompson School of Applied Science must submit both the Common Application and UNH Supplement to be considered for admission. To access both forms, visit www.thompsonschool.unh.edu/prospective.html.

Although UNH will accept the paper-version of the application, students are strongly encouraged to submit the application electronically through the Common Application website www.commonapp.org, as this expedites the process. These same options are available to students applying from countries other than the United States.

The Common Application and UNH Supplement may be submitted from September through mid-July. The Early Action due date is November 15. Notice of admission to the Thompson School normally will be sent within 30 days following receipt of all required information.

Please note that priority due dates for students requesting UNH residential housing are February 1 for the fall semester and November 1 for the spring semester. Housing assignments are handled on a space-available basis. The UNH financial aid due date is March 1 for the following academic year.

Campus Visits

Prospective students are encouraged to participate in an interview at the Thompson School, attend an open house, and/or take a tour of the Thompson School and the rest of the UNH campus. Interviews are recommended but not required. An open house is held in the fall. To attend the open house or to arrange your visit, please contact the Thompson School at (603) 862-1025 or visit our Web site at www.thompsonschooll.unh.edu.

Expenses, Financial Aid, and Scholarships

Costs for students include tuition, fees, room and board, books and supplies, and personal and travel expenses. These costs are the same for any student enrolled at the University of New Hampshire (see Fees and Expenses) and students majoring at the Thompson School have access to the same student services. (See also Campus Life, page 6, Programs and Services for Students, and Health Services.) Required curriculum and lab fees for Thompson School programs are listed with each specialization.

For information about scholarships, loans, and work-study, write the Financial Aid Office, Stoke Hall, 11 Garrison Avenue, Durham, NH 03824-3511, or call (603) 862-3600. A financial aid form must be on file for a student to be considered for many scholarships. (See also Financial Aid, page 5.)

The Thompson School and the College of Life Sciences and Agriculture (of which the Thompson School is a division) also provide scholarship opportunities for Thompson School students. Call (603) 862-1025 for a list of these possibilities or visit our Web site at www.thompsonschooll.unh.edu/scholarships/index.html.

New England Regional Student Program

The Thompson School participates in the New England Regional Student Program of the New England Board of Higher Education, through which each state university system in New England offers a number of regional curricula to students from other New England states. Under this program, students pay in-state tuition plus 75 percent. See the following table for Thompson School programs that are eligible in 2009-2010. Eligibility under this program may vary from year to year, so it is suggested that you obtain further information by contacting the New England Board of Higher Education, 45 Temple Place, Boston, MA 02111; (617) 357-9620. You may also contact the UNH Office of Admissions or the Thompson School for more information.

Associate Degree Program

Applied Animal Science

Dairy Management	MA, ME, RI, VT
Equine Management	MA, ME, RI, VT
Small Animal Care	MA, ME, RI, VT

Civil Technology

Architectural Technology	CT, RI
Construction Management	CT, RI
Surveying and Mapping	CT, RI

Community Leadership

Community Leadership	CT, MA, ME, RI, VT
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Food Service Management

Culinary Arts	MA, RI, VT
Dietetic Technician	MA, RI, VT
Restaurant Management	MA, RI, VT

Forest Technology

Forest Technician	CT, MA, RI, VT
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Horticultural Technology

Landscape Operations	RI
Ornamental Horticulture	RI

Available to Residents of

CSL	Community Leadership
CD	Community Development
FSM	Food Services Management
FORT	Forest Technology
HT	Horticultural Technology
MTH TSAS	Mathematics
NUTR	Nutrition
PBIO	Plant Biology
SSCI TSAS	Social Science
ZOOL	Zoology

Programs of Study

Agricultural Mechanization (AM)

(For course descriptions, see page 260.)

Professor: Thomas A. March

Applied Animal Science (AAS)

www.thompsonschooll.unh.edu/aas

(For course descriptions, see page 260.)

Professor: Andrew B. Conroy

Associate Professor: Laurie Chapman-Bosco

Applied Animal Science provides students with hands-on practical skills combined with knowledge and understanding of the latest technology. The core program provides a solid background in anatomy, physiology, nutrition, health, and animal breeding. In addition, students choose a specialization in equine management, dairy management, or small animal care. Each specialization also allows for choices of elective courses in other areas.

Practical learning experience is provided at the UNH equine facilities and the Thomas P. Fairchild Dairy Teaching and Research Center. The Thompson School also operates its own grooming shop and biology laboratories. The curriculum has a number of animal-related educational programs, including an educational partnership with the New Hampshire SPCA in Stratham, and field trips to many animal-related businesses.

Admissions Requirements

Applicants to the Applied Animal Science program area must present at least two years of satisfactory work in both college preparatory mathematics and science (one of them being biology, with a lab). One year of high school chemistry is also highly recommended.

Transfer Opportunities

UNH invites Thompson School graduates to continue their education at the University. Many of the associate degree programs offered by the School have baccalaureate degree counterparts. Specifically, these counterparts include civil engineering, forestry, environmental horticulture, animal sciences, dairy management, equine management, nutritional sciences, business administration, and hospitality management. Many other baccalaureate majors also are available. A final cumulative grade-point average of at least 2.5 is required for transfer to most programs; some UNH baccalaureate programs require a higher cumulative grade-point average. Successful completion of a baccalaureate degree usually requires a minimum of two years of additional study at the University. Other colleges and universities, especially those within the University System of New Hampshire, also welcome graduates from the Thompson School.

Program Abbreviations

The following abbreviations are used to identify courses that are part of Thompson School of Applied Science programs.

AM	Agricultural Mechanization
AAS	Applied Animal Science
ABM	Applied Business Management
ANSC	Animal and Nutritional Science
CT	Civil Technology
COM TSAS	Communication

Curriculum Fee

Applied animal science, all specializations: \$570*

Applied Animal Science Curriculum Standards

Applied Animal Science students must maintain a minimum 2.0 cumulative grade-point average in AAS classes after two semesters (26 credits) to take additional AAS classes. Students with AAS averages lower than 2.0 must repeat classes with lower grades and raise their average to the required 2.0 before taking additional AAS classes. Students must have a minimum cumulative 2.0 grade-point average in AAS classes to qualify for graduation from the program.

Dairy Management

To work in the highly technical, rapidly changing field of dairy management, students must become well versed in the many aspects of dairy farm operation and management. In the dairy management specialization, students put into practice immediately many of the skills learned in the classroom. Students learn to balance rations, identify and treat diseases, read a bull proof, and gain many other skills. They work at the University's dairy farm, a modern and well-equipped teaching and research center, where students work with each other to manage the CREAM (Cooperative for Real Education in Agriculture) herd. Students are also involved with the new organic dairy facility.

Students learn the business of farming through field exercises in land management, forage production, financial management, and computer use on a dairy farm as well as through continued practical experience with cattle. The program prepares students to work both on the farm and in related businesses.

Thompson School Dairy Management has a unique arrangement with the Animal and Nutritional Sciences (ANSC) Baccalaureate Dairy Management major. Students may start with the Thompson School program, obtain their Associate in Applied Science (A.A.S.) degree then transfer to ANSC and obtain a B.S. in two additional years with a full-time

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course of study. This allows students to receive two degrees in as little as four years or obtain their A.A.S. degree and work in the field to later return for a B.S. Students wishing to follow this course of action need to work closely with their advisers and maintain a grade of C or better in key Applied Animal Science courses.

Career Opportunities: Herd manager, agricultural sales and/or service employee, farm manager, artificial insemination (AI) technician, crop manager, farm or farm-business owner.

Dairy Management Program of Study**First Year, Fall Semester**

AAS 228, Anatomy and Physiology of Domestic Animals, 4 cr.
AAS 231, Introduction to Animal Science, 4 cr.
AAS 244, Introduction to Dairy Herd Management, 4 cr.
AAS 278, AAS Computer Applications, 1 cr.
COM 209, Expository Writing and Reading, 4 cr.

First Year, Spring Semester

AAS 223, Dairy Selection, 2 cr.
AAS 234, Equipment and Facilities Management, 3 cr.
AAS 239, Fundamentals of Animal Health, 3 cr.
AAS 242, Introduction to Business, AAS, 2 cr.
COM 212, Technical Writing, 2 cr.
MTH 202, Math II, 3 cr.

Second Year, Fall Semester

AAS 232, Animal Forages, 3 cr.
AAS 235, Animal Nutrition, 3 cr.
AAS 246, Animal Business Applications, 4 cr.
AAS 275, CREAM (Cooperative for Real Education in Agriculture) Program, 4 cr.
AAS 297, Work Experience (summer), 0 cr.
SSCI class, 2-4 cr.

Second Year, Spring Semester

AAS 240, Animal Breeding, 3 cr.
AAS 274, Dairy Cattle Diseases, 2 cr.
AAS 275, CREAM Program, 4 cr.
SSCI 201, Human Relations, 4 cr. or
SSCI 202, Social Issues, 4 cr.

Recommended electives include

AAS 221, Large Animal Behavior and Handling, 2 cr.
AM Agricultural Mechanization courses

Total: 67-70 credits

Equine Management

The equine industry in New England encompasses many different facilities and disciplines. Students in the equine management specialization combine courses in the most recent technical information with related practical experience. They gain hands-on experience in bandaging, selection, ration-balancing by computer, fitting and care of equipment, and farm and barn analysis. They also acquire decisionmaking and managerial skills. Graduates have a solid foundation to pursue either employment or additional educational opportunities upon completion of the program.

The riding focus at UNH is balance seat with schooling in dressage, cross country, and stadium jumping. Thompson School students in horsemanship classes ride in the UNH program and have the opportunity to compete in intercollegiate shows.

Thompson School Equine Management has an articulation agreement for students wishing to pursue a B.S. from ANSC following graduation from the Thompson School. This B.S. would be obtained either in Equine Industry and Management (Track I) with four additional semesters, or in Therapeutic Horseback Riding (Track II) in five additional semesters. With this articulation, students may obtain both an Associate Degree in Applied Science (A.A.S.) and a B.S. in as little as four years with full-time coursework, or obtain their A.A.S., work in the field, and return for their B.S. Students wishing to take advantage of these articulation agreements need to work closely with their advisers. An additional financial benefit may be realized by students following this articulation as the Equine Management specialization is part of the New England Regional Compact (see section headed "New England Regional Student Program").

Career Opportunities: Barn manager, breeding farm manager, sales (tack shops, grain stores), horse show manager, veterinary assistant/equine practice, riding instructor.

Equine Management Program of Study**First Year, Fall Semester**

AAS 228, Anatomy and Physiology of Domestic Animals, 4 cr.
AAS 231, Introduction to Animal Science, 4 cr.
AAS 237, Equine Handling & Care Techniques, 4 cr.
AAS 278, AAS Computer Applications, 1 cr.
COM 209, Expository Writing and Reading, 4 cr.

First Year, Spring Semester

AAS 226, Equine Conformation and Lameness, 4 cr.
AAS 236, Equine Show Preparation and Competition, 1 cr.
AAS 234, Equipment and Facilities Management, 3 cr.
AAS 239, Fundamentals of Animal Health, 3 cr.
AAS 242, Introduction to Business, AAS, 2 cr.
COM 212, Technical Writing, 2 cr.
MTH 202, Math II, 3 cr.

Second Year, Fall Semester

AAS 232, Animal Forages, 3 cr.
AAS 235, Animal Nutrition, 3 cr.
AAS 246, Animal Business Applications, 4 cr.
AAS 247, Applied Equine Management, 3 cr.
AAS 297, Work Experience (summer), 0 cr.
SSCI class, 2-4 cr.
ANSC 402, Horsemanship, 3 cr.

Second Year, Spring Semester

AAS 240, Animal Breeding, 3 cr.
AAS 252, Equine Health Management, 4 cr.
AAS 253, Equine Competition Management, 2 cr.
SSCI 202, Social Issues, 4 cr.
Electives, 2-5 cr.

Recommended electives

AAS 272, Comparative Equine Operations, 1 cr.
 AAS 293, Equine Field Operations, 1 - 3 cr.
 ANSC 411, Introduction to Equine Science, 1 cr.
 ANSC 507, Scientific Approach to Equine Discipline (ANSC 402 is a prerequisite), 3 cr.

Total: 65-69 credits

Small Animal Care

Animal companionship provides millions of people with an oasis in a hectic, impersonal world, and pet owners consistently seek additional advice on the care of their animals. The small animal care specialization prepares students to work in companion animal care positions of all types.

In their first year, students gain experience in breed types, behavior, genetics, restraint, and training of dogs and cats. Students also master laboratory procedures such as fecal examination and heartworm testing. In addition, the students learn the basics of grooming, nutrition, first aid, disease prevention, medication administration, and toxicology. During their second year, students spend four hours a week at the New Hampshire SPCA performing all aspects of animal care while they continue with their academic subjects.

Small Animal Care is very flexible with recommended elective courses. Second-year students choose classes based on their career goals. Career tracks include veterinary hospital employment, employment in the humane/animal control fields, employment or ownership within the boarding/grooming/daycare industry, or positions in laboratory animal care.

Career Opportunities: Veterinary assistant, laboratory animal caregiver, pet store manager, pet groomer, kennel manager, animal care and control technician, animal-assisted activities/therapy volunteer and/or coordinator.

Small Animal Care Program of Study**First Year, Fall Semester**

AAS 228, Anatomy and Physiology of Domestic Animals, 4 cr.
 AAS 230, Small Animal Breeds and Behavior, 4 cr.
 AAS 231, Introduction to Animal Science, 4 cr.
 AAS 278, AAS Computer Applications, 1 cr.
 COM 209, Expository Writing and Reading, 4 cr.

First Year, Spring Semester

AAS 218, Careers in Small Animal Care, 1 cr.
 AAS 222, Small Animal Grooming I, 2 cr.
 AAS 239, Fundamentals of Animal Health, 3 cr.
 AAS 242, Introduction to Business, AAS, 2 cr.
 AAS 249, Small Animal Care Techniques, 2 cr.
 COM 212, Technical Writing, 2 cr. or
 COM 211, Critical Reading, 2 cr.
 MTH 202, Math II, 3 cr.
 Electives, 2-4 cr.

Second Year, Fall Semester

AAS 235, Animal Nutrition, 3 cr.
 AAS 246, Animal Business Applications, 4 cr.
 AAS 279, Small Animal Care Practicum, 2 cr.
 AAS 297, Work Experience (summer), 0 cr.
 SSCI 201, Human Relations, 4 cr.
 AAS Electives, 2-4 cr.

Second Year, Spring Semester

AAS 224, Small Animal Management, 4 cr.
 AAS 240, Animal Breeding, 3 cr.
 AAS 279, Small Animal Care Practicum, 2 cr.
 AAS Electives, 2-4 cr.
 SSCI Class, 2-4 cr.
 Electives, 2-4 cr.

Recommended AAS electives

AAS 219, Animal Cruelty: NH Laws, Investigations, and Prosecution, 1 cr.
 AAS 221, Large Animal Behavior and Handling, 2 cr.
 AAS 227, Small Animal Diseases, 2 cr.
 AAS 233, Small Animal Grooming II, 2 cr.
 AAS 236, Equine Show Preparation and Competition, 1 cr.
 AAS 237, Equine Management Techniques, 4 cr.
 AAS 251, Human/Animal Bond, 2 cr.
 AAS 254, Animal Assisted Activities and Therapy, 2 cr.
 AAS 276, Introduction to Lab Animals, 2 cr.
 AAS 277, Lab Animal Practicum, 1 cr.
 ABM courses (permission required)
 ANSC 402, Horsemanship
 CSL (Community Leadership) courses, for students interested in working with non-profit organizations

Total: 64-70 credits

Applied Business Management (ABM)

www.thompsonschoo.unh.edu/abm

(For course descriptions, see page 262.)

Professor: William H. Scott

Associate Professor: Benjamin P. Fowler, David E. Tooch, Steven D. Tuttle

The Applied Business Management program combines classwork and practical experience to give students a thorough understanding of the business field. The core curriculum includes accounting, marketing and sales, human resource management, computer applications, communications, business law, and strategic management for small business. Students may select from a variety of UNH electives.

Practical experience is gained through projects with local industries, municipalities, and state agencies, as well as student-run businesses. Students also may elect to develop internships with area businesses.

Admissions Requirements

Students entering the business management program must have a minimum of two years of college preparatory mathematics. Several ABM courses require a strong background in basic mathematics and algebra.

Curriculum Fees

Applied Business Management \$125*

Business Management

Small- to medium-sized businesses represent the largest and fastest-growing segment of the state and regional economy. The Business Management program is specifically designed for students who wish to seek entry-level management positions in existing firms, prepare for management of a family-owned business, or start a new business. Business management students gain practical exposure to essential topics in business management that prepares them to seek further specialization in a business area or to prepare for transfer to a baccalaureate program.

Career Opportunities: Office manager, entrepreneur, management trainee, assistant manager, purchasing and inventory controller, bookkeeper, domestic and international sales professional, business owner.

Business Management Program of Study**First Year, Fall Semester**

ABM 204, Principles of Management, 4 cr.
 ABM 205, Applied Financial Accounting, 4 cr.
 COM 209, Expository Writing and Reading, 4 cr.
 MTH 201, Math I, 3 cr.
 or MTH 202, Math II, 3 cr.

First Year, Spring Semester

ABM 207, Applied Marketing, 4 cr.
 ABM 208, Managerial Accounting, 4 cr.
 ABM 226, Business Computer Applications, 4 cr.
 COM 210, Public Speaking, 2 cr.
 Elective, 4 cr.

Second Year, Fall Semester

ABM 202, Professional Writing, 3 cr.
 ABM 206, Human Resource Management, 4 cr.
 ABM 214, Applied Sales, 4 cr.
 SSCI 201, Human Relations, 4 cr.
 Electives, 2-4 cr.

Second Year, Spring Semester

ABM 211, Business Policy, 4 cr.
 ABM 232, Business Law, 4 cr.
 Social Science Elective, 2-4 cr.
 Electives, 4 cr.

*This one-time, nonrefundable curriculum fee is required to cover lab materials, specialized equipment maintenance, and transportation that is unique to the applied nature of the specialization. The curriculum fee covers the entire two-year course of study for one specialization. Any non-TSAS student may be assessed specific course fees, details of which are included in each semester's Time and Room Schedule. All fees are subject to change.

Elective Courses

- ABM 210, Operations Management, 4 cr.
- ABM 213, Applied Micro-Economics, 4 cr.
- ABM 215, Business and the Community, 4 cr.
- ABM 217, Web Page Programming and Design, 4 cr.
- ABM 240, Ethics in Business and Society, 4 cr.
- ABM 242, International Trade Applications, 4 cr.
- ABM 291/292, Independent Studies, 1-4 cr.

Total: 64-66 credits

Civil Technology (CT)

www.thompsonschoo.unh.edu/ct

(For course descriptions, see page 263.)

Professor: Robert G. Moynihan, Guy E. Petty

Associate Professor: Kenneth L. Flesher

Civil Technology is a dynamic educational opportunity offering skill-based learning through class instruction, extensive laboratory experience, and fieldwork, as well as portfolio opportunities. Students choose from one of the following specializations: architectural technology, construction management, or surveying and mapping.

The cornerstone of the educational experience is instruction in computer-aided design (CAD) and parametric modeling using the Thompson School's state-of-the-art CAD/BIM (Building Information Management) labs. Students in surveying use the latest GPS and surveying equipment and students studying geographical information systems (GIS) use the new GIS Instructional Lab. Additional coursework covers building science, construction contracting, materials, soils, and methodologies of professional practice in the concentration specialties.

Admissions Requirement

Applicants to the architectural technology, construction management, and surveying and mapping specializations must present at least two years of satisfactory work in college preparatory mathematics.

Curriculum Fees

Civil technology: all specializations: \$82*

*This one-time, nonrefundable curriculum fee is required to cover lab materials, specialized equipment maintenance, and transportation that is unique to the applied nature of the specialization. The curriculum fee covers the entire two-year course of study for one specialization. Any non-TSAS student may be assessed specific course fees, details of which are included in each semester's Time and Room Schedule. All fees are subject to change.

Architectural Technology

In the Architectural Technology specialization, students expand on the broad construction-related base of the Civil Technology curriculum. Faculty who are experienced, registered architects and engineers introduce students to the technical skills used in the architectural profession, including computer-aided design (CAD), parametric modeling, and building science-related technologies. Course content includes engineering-based as well as design-based disciplines. The courses, when coupled with recommended electives, provide students with a substantial knowledge base for architecture-related careers. While some graduates continue their studies in accredited baccalaureate programs and become registered architects, most find work in technical support positions within the design and construction industries in either private companies or public/government entities.

Career Opportunities: Architectural technician, CAD designer, public works operations, land development planner, facilities management, engineering aide, or construction supervisor.

Architectural Technology Program of Study

First Year, Fall Semester

- CT 222, Computer Aided Design Level 1, 4 cr.
- CT 223, Introduction to Surveying and Mapping, 3 cr.
- CT 224, Surveying and Mapping Lab, 2 cr.
- AM 280, Technical Computer Literacy/Internet Applications, 4 cr.
- MTH 203, Algebra and Trigonometry, 3 cr.

First Year, Spring Semester

- CT 231, Design I, 4 cr.
- AM 275, Building Science/Residential Construction, 4 cr.
- COM 212, Technical Writing, 2 cr.
- or COM 210, Public Speaking, 2 cr.
- SSCI 204, Leadership Effectiveness and Group Performance, 2 cr.
- Elective, 4 cr.

Second Year, Fall Semester

- CT 227, Mechanical & Electrical Systems, 4 cr.
- CT 247, Construction Contracting, 4 cr.
- CT 281, Architecture I History and Design, 4 cr.
- CT 297, Work Experience, 0 cr.
- COM 209, Expository Writing and Reading, 4 cr.

Second Year, Spring Semester

- CT 282, Architecture II, 4 cr.
- SSCI 202, Social Issues, 4 cr.
- Technical Elective, 4 cr.
- Elective, 4 cr.

Total: 65 credits

Technical Elective Courses

- CT 235, Introduction to Information Technology
- AM 251, Welding and Fabrication Technology
- AM 262, Internal Combustion Engines II (Prereq. AM 261)
- other courses by approval

Construction Management

In the Construction Management specialization, students prepare for careers in land development, construction contracting and management, and land-use planning. Students learn not only how to build well but how to build wisely. They study construction and its related technologies, dealing with material selection and design, and design of foundation and drainage systems. They also examine environmental and land development issues by studying residential and commercial septic and waste disposal systems, recycling, and effective energy management. Some graduates elect to continue their education in bachelor of science programs in civil engineering or community development.

Graduates of the Construction Management specialization find employment in a variety of building industry-related positions.

Career Opportunities: Construction supervisor, project manager, cost estimator, public works employee, contractor, code enforcement officer, construction material tester, land-development planning employee, site evaluator for building components, construction product manufacturer, product representative, DOT engineering technician.

Construction Management Program of Study

First Year, Fall Semester

- CT 222, Computer Aided Design Level I, 4 cr.
- CT 223, Introduction to Surveying and Mapping, 3 cr.
- CT 224, Surveying and Mapping Lab, 2 cr.
- AM 280, Technical Computer Literacy/Internet Applications, 4 cr.
- MATH 203, Algebra and Trigonometry, 3 cr.

First Year, Spring Semester

- CT 231, Design I, 4 cr.
- CT 233, Construction Surveying, 4 cr.
- CT 237, Land Design and Regulations., 4 cr.
- COM 212, Technical Writing, 2 cr.
- or COM 210, Public Speaking, 2 cr.
- SSCI 204, Leadership Effectiveness and Group Performance 2 cr.

Second Year, Fall Semester

- CT 227, Mechanical and Electrical Systems, 4 cr.
- CT 230, Statics and Materials, 4 cr.
- CT 247, Construction Contracting, 4 cr.
- CT 297, Work Experience, 0 cr.
- COM 209, Expository Writing and Reading, 4 cr.

Second Year, Spring Semester

- CT 234, Soils and Foundations, 4 cr.
- SSCI 202, Social Issues, 4 cr.
- AM 275, Building Science/Residential Construction, 4 cr.
- Technical Elective, 4 cr.

Total: 65 credits

Technical Elective Courses

CT 235, Introduction to Information Technology
 AM 251, Welding and Fabrication Technology
 AM 262, Internal Combustion Engines II (Prereq. AM 261)
 other courses by approval

Surveying and Mapping

As land values increase and the need to use our natural resources efficiently while protecting our environment becomes more critical, the role of surveyors is expanding. The Surveying and Mapping specialization contains a core sequence of six courses (from Introductory Surveying to the Legal Aspects of Surveying) that continuously challenge students to improve their technical knowledge, computer skills, and field competency. Using electronic field measuring equipment, computers to create and plot maps, and satellite positioning technology, the surveyors and mappers of today are at the forefront of acquiring, analyzing, and managing land information.

Career Opportunities: Licensed land surveyor, DOT engineering technician, GIS technician, land development planner, construction surveyor, GPS technician.

Surveying and Mapping Program of Study**First Year, Fall Semester**

CT 222, Computer Aided Design Level I, 4 cr.
 CT 223, Introduction to Surveying and Mapping, 3 cr.
 CT 224, Surveying and Mapping Lab, 2 cr.
 AM 280, Technical Computer Literacy/Internet Applications, 4 cr.
 MATH 203, Algebra and Trigonometry, 3 cr.

First Year, Spring Semester

CT 231, Design I, 4 cr.
 CT 233, Construction Surveying, 4 cr.
 CT 237, Land Design and Regulations, 4 cr.
 COM 212, Technical Writing, 2 cr.
 or COM 210, Public Speaking, 2 cr.
 SSCI 204, Leadership Effectiveness and Group Performance 2 cr.

Second Year, Fall Semester

CT 240, Legal Aspects of Surveying, 3 cr.
 CT 243, Advanced Surveying and Mapping, 3 cr.
 CT 247, Construction Contracting, 4 cr.
 CT 297, Work Experience, 0 cr.
 COM 209, Expository Writing and Reading, 4 cr.
 Elective, 4 cr.

Second Year, Spring Semester

CT 244, Advanced Surveying Computations, 4 cr.
 SSCI 202, Social Issues, 4 cr.
 Technical Elective, 4 cr.
 Elective, 4 cr.

Total: 67 credit**Technical Elective Courses**

CT 235, Introduction to Information Technology
 AM 251, Welding and Fabrication Technology
 AM 262, Internal Combustion Engines II (Prereq. AM 261)
 other courses by approval

Elective Courses

AM 261, Internal Combustion Engines I
 AM 275, Building Science/Residential Construction
 CT 227, Mechanical and Electrical Systems
 CT 230, Statics and Materials
 CT 233, Construction Surveying
 CT 234, Soils and Foundations
 CT 237, Land Design and Regulations
 CT 240, Legal Aspects of Surveying
 CT 243, Advanced Surveying and Mapping
 CT 244, Advanced Surveying Computations
 CT 281, Architecture I History & Design
 CT 282, Architecture II (Prereq: Architecture I)

Community Leadership (CSL)

www.thompsonschoo.unh.edu/colead

(For course descriptions, see page 263.)

Associate Professor: Timothy E. Barretto, M.
 Katharine Hanson

The award-winning Community Leadership program (CSL) prepares students for influential roles within community organizations by combining hands-on community outreach with an academic study of communities, leadership, citizen influence, nonprofit organization management, and general education. The Community Leadership program was the recipient of the 2007 Spirit of New Hampshire Champion Award for Higher Education.

Students participate in faculty-supervised community outreach in a wide variety of locations, including schools and other learning-focused agencies, crisis shelters, environmental organizations, animal care facilities, nursing homes, advocacy programs, town offices, citizen groups, and other community-related organizations.

Through their coursework, community placements, and individualized plans of study, students learn how to: supervise volunteers, facilitate effective meetings, speak comfortably and knowledgeably to groups of various sizes, analyze community issues and their causes, manage financial information, organize projects and events, research and prepare grant proposals, create effective newsletters, influence public opinion, and organize people to work toward positive solutions for shared problems.

The Community Leadership program is designed to flexibly and effectively meet the needs of a diverse group of students including recent high school graduates as well as experienced community-service workers.

Admissions Requirements

Applicants to the Community Leadership program area must present at least two years satisfactory work in college preparatory

mathematics and demonstrate community service or leadership experience plus strong verbal and written communication skills.

Curriculum Fee

Community Leadership: \$60*

Community Leadership Program of Study**First Year, Fall Semester**

COM 209, Expository Writing and Reading, 4 cr.
 SSCI 201, Human Relations, 4 cr.
 CSL 201, Introduction to Community Service and Leadership, 4 cr.
 CSL 200, Technology for Community Service and Leadership, 2 cr.
 MTH, Mathematics, 3 cr.

First Year, Spring Semester

SSCI 202, Social Issues, 4 cr., or equivalent course determined in consultation with adviser
 COM 210, Public Speaking, 2 cr.
 CSL 205, Communication within Communities 4 cr.
 CSL 202, Introduction to Nonprofit Organizations, 4 cr.
 CSL 203, Organizing and Supervising Volunteers, 4 cr.

Second Year, Fall Semester

CSL 207, Introduction to Nonprofit Budgeting and Accounting Practices, 3 cr.
 ABM 215, Business and Community, 4 cr.,
 or CD 415 Community Development, 4 cr.
 CSL 204, Managing Change and Conflict in Communities, 4 cr.
 COM 211, Critical Reading, 2 cr.
 CSL 290, Civic and Community Internship, 2-4 cr.,
 or Electives, 2-4 cr.
 Documented participation in one of the UNH Leadership Centers Programs

Second Year, Second Semester

CSL 206, Literature of Family and Community, 4 cr.
 CSL 208, Essentials of Fund Raising for Community-Based Organizations, 2 cr.
 CSL 209, Essentials of Grant Writing for Community-Based Organizations, 2 cr.
 CSL 210, Community Service and Leadership Capstone Seminar, 4 cr.
 Elective, 4 cr.

Total: 64-68 credits

Career Opportunities: volunteer manager, grant writer, lobbyist, public relations and marketing assistant, event planner, outreach coordinator, fundraiser/development specialist, publications media assistant, community organizer, staff supervisor.

*This one-time, nonrefundable curriculum fee is required to cover lab materials, specialized equipment maintenance, and transportation that is unique to the applied nature of the specialization. The curriculum fee covers the entire two-year course of study for one specialization. Any non-TSAS student may be assessed specific course fees, details of which are included in each semester's Time and Room Schedule. All fees are subject to change.

Food Service Management (FSM)

www.thompsonschoo.unh.edu/fsm

(For course descriptions, see page 264.)

Associate Professor: Eugene P. Alibrio,
Charles A. Caramihalis, Nancy M. Johnson

The Food Service Management program has three distinct specializations: culinary arts, dietetic technician, and restaurant management.

Admissions Requirements

Applicants to the dietetic technology specialization must present a minimum of two years of satisfactory work in college preparatory mathematics and sciences (one of these being biology, with a lab). College preparatory chemistry is highly recommended.

Applicants to the culinary arts or restaurant management specializations must present a minimum of two years of satisfactory work in college preparatory mathematics.

Curriculum Fee

Food Service Management
Culinary Arts: \$478*
Dietetic Technician: \$478*
Restaurant Management: \$478*

Culinary Arts

www.thompsonschoo.unh.edu/fsm/culinary.html

Students who complete the requirements for the culinary arts specialization are prepared for a variety of positions as entry level chefs in the hospitality industry. In a program that combines classroom work with practical experience, students learn and explore career opportunities, menu development, cost control, food safety, baking, nutrition, management skills, and general education. Through a unique partnership with University Hospitality Services, students complete rotations in state-of-the-art production kitchens on campus at Holloway Commons and The New England Center. These rotations provide opportunities to develop proficiency in contemporary and classical culinary techniques and cooking methods related to a la carte, banquet, and quantity food production and service. The culinary arts specialization is annually reviewed by its own advisory com-

*This one-time, nonrefundable curriculum fee is required to cover lab materials, specialized equipment maintenance, and transportation that is unique to the applied nature of the specialization. The curriculum fee covers the entire two-year course of study for one specialization. Any non-TSAS student may be assessed specific course fees, details of which are included in each semester's Time and Room Schedule. All fees are subject to change.

mittee made up of industry professionals, program faculty, and chef-instructors who revise curriculum to meet changing industry needs.

Career Opportunities: Chef; restaurants, hotels, private clubs, theme parks, catering and banquets, destination resorts, cruise ships, corporate chains, and healthcare.

Culinary Arts Program of Study

First Year, Fall Semester

FSM 201, Food Preparation Fundamentals, 2 cr.
FSM 203, Introduction to Restaurant Management, 3 cr.
FSM 206, Food and Beverage Cost Controls, 4 cr.
FSM 207, Hospitality: Sanitation and Safety, 2 cr.
FSM 242, Culinary Skill Development in Quantity Food Production, 4 cr.

First Year, Spring Semester

FSM 204, Basic Baking, 4 cr.
FSM 214, Menu Planning and Design, 1 cr.
FSM 222, Local Foods, 4 cr.
FSM 226, Dining Room Practicum, 3 cr.
FSM 243, Culinary Practicum in Display Cooking, 4 cr.

Second Year, Fall Semester

FSM 205, Hospitality Computer Applications, 3 cr.
FSM 228, Applied Nutrition, 2 cr.
FSM 244, Catering Operations: Buffets and Banquets, 4 cr.
FSM 298, Summer Work Experience, 0 cr.
COM 209, Expository Writing and Reading, 4 cr.
MTH, Mathematics, 3 cr.

Second Year, Spring Semester

FSM 211, Facilities and Equipment Planning, 2 cr.
FSM 212, Hospitality Personnel Management, 3 cr.
FSM 245, American and Regional Cuisine, 4 cr.
FSM 247, International Cuisine, 5 cr.
COM 210, Public Speaking, 2 cr.
Social Science, 2 cr.

Total: 65 credits

Dietetic Technician

www.thompsonschoo.unh.edu/fsm/dietetic.html

This specialization is accredited by the Commission on Accreditation of the American Dietetic Association (CADE). Graduates are prepared for a variety of positions in health-care: helping to treat and prevent disease, managing employees, developing menus, teaching nutrition classes for the public, and educating clients about the relationship of food, fitness, and health. In a program that combines classroom work and practical experience, students learn the nutrition care process and develop skills in food production and delivery.

Career Opportunities: Dietetic technicians, registered (DTRs) work in a variety of settings, including hospitals, nursing homes, research facilities, schools, day-care centers, correctional facilities, restaurants, health-care facilities, food service operations, WIC

programs, public health agencies, Meals on Wheels, community health programs, health clubs, weight management clinics, community wellness centers, food companies, and contract food management companies, and food vending and distributing operations.

Dietetic Technician Program of Study

First Year, Fall Semester

FSM 201, Food Preparation Fundamentals, 3 cr.
FSM 204, Intro to the Dietetic Technician Profession, 1 cr.
FSM 205, Hospitality Computer Applications, 3 cr.
FSM 207, Hospitality: Sanitation and Safety, 2 cr.
NUTR 400, Nutrition Health and Wellbeing, 4 cr.
MTH, Mathematics, 3 cr.

First Year, Spring Semester

FSM 200, Introductory Chemistry, 3 cr.
FSM 202, Quantity Foods Practicum, 3 cr.
NUTR 476, Nutritional Assessment, 4 cr.
ZOO 401, Human Biology, 4 cr.
COM 209, Expository Reading and Writing, 4 cr.

Second Year, Fall Semester

FSM 206, Food and Beverage Cost Controls, 4 cr.
FSM 260, Dietetics Practice in the Community, 3 cr.
FSM 275, Diet Therapy and Counseling, 4 cr.
COM 210, Public Speaking, 2 cr.
SSCI 204, Human Relations, 4 cr.

**Second Year, Spring Semester Registration Pathway

FSM 212, Hospitality Personnel Management, 3 cr.
FSM 265, Community Nutrition for Dietetic Technicians, 2 cr.
FSM 276, Dietetics Practice in Long Term Care, 1 cr.
FSM 290, Dietetics Practice in Acute Care, 5 cr.
FSM 295, Professional Issues in Dietetic Tech, 1 cr.
Social Science, 2 cr.

Total: 65 credits

**Second Year, Spring Semester Non-Registration Pathway

FSM 212, Hospitality Personnel Management, 3 cr.
FSM 222, Local Foods, 4 cr.
FSM 265, Community Nutrition for Dietetic Technicians, 2 cr.
Elective, 4 cr.
Social Science, 2 cr.

Total: 66 credits

*Students in the registration pathway must complete a minimum of 450 hours of supervised practice in food service management, community nutrition and clinical nutrition in on-campus facilities, local hospitals and long term care facilities. Upon successful completion of the program, these students will be eligible to sit for the registration exam to be credentialed as a dietetic technician, registered (DTR). A dietetic technician, registered (DTR) is eligible for membership in the American Dietetic Association, an organization of food and nutrition professionals. Students may choose the non-registration pathway.

**Students in the non-registration pathway gain experience in food service management and community nutrition supervised practice rotations and round out their program of study with a course on local foods and an elective of their choice.

*Students who wish to be eligible to sit for the

dietetic technician, registered (DTR) exam must complete all major classes with a grade of C or better to gain placement in FSM 276 and FSM 290. Students not meeting this academic standard are encouraged to repeat classes or complete the non-registration pathway.

Restaurant Management

www.thompsonschoo.unh.edu/fsm/restaurant.html

In the restaurant management specialization, students experience a carefully developed combination of classroom and laboratory work. They engage in practical, hands-on experiences, using modern commercial equipment to help them refine the necessary skills to be successful in the field. Students operate two restaurants located in the Thompson School: Stacey's Buffet and the Balcony Bistro. They present weekly buffets, and cater banquets and special events sponsored by the school. Finally, a required summer internship rounds out the program's hands-on experiential learning. Students can also work at The New England Center and University Hospitality Services, all located on the UNH campus. Extracurricular learning and earning opportunities are available in the many restaurants located in the Seacoast area. Students who want to continue their education are strongly encouraged to take electives from the University's four-year program to get a head start on transfer status.

Career Opportunities: Restaurant owner/manager, caterer, food and beverage sales, food buyer, food and beverage manager, food services director.

Restaurant Management Program of Study

First Year, Fall Semester

FSM 201, Food Preparation Fundamentals, 3 cr.
FSM 203, Introduction to Restaurant and Hospitality Management, 3 cr.
FSM 205, Hospitality Computer Applications, 3 cr.
FSM 206, Food and Beverage Cost Controls, 4 cr.
FSM 207, Hospitality: Sanitation and Safety, 2 cr.
FSM 226, Dining Room Practicum, 3 cr.

First Year, Spring Semester

FSM 202, Menu Management, 3 cr.
FSM 214, Menu Planning and Design, 1 cr.
ABM 208, Managerial Accounting, 4 cr.
COM 209, Expository Writing and Reading, 4 cr.
MTH, Mathematics, 3 cr.

Second Year, Fall Semester

FSM 228, Culinary Nutrition, 2 cr.
FSM 241, Applied Buffet and Catering Management, 4 cr.
FSM 298, Summer Work Experience, 0 cr.
COM 210, Public Speaking, 2 cr.
SSCI 204, Leadership and Groups, 2 cr.
Elective, 4 cr.

Second Year, Spring Semester

FSM 211, Food and Beverage Facilities Planning, 2 cr.
FSM 212, Hospitality Personnel Management, 3 cr.
FSM 222, Local Foods, 4 cr.
ABM 207, Applied Marketing, 4 cr.
ABM 232, Business Law, 4 cr.

Total: 64 credits

Forest Technology (FORT)

www.thompsonschoo.unh.edu/fort

(For course descriptions, see page 266.)

Professor: Matthew C. Chagnon, Donald W. Quigley

Students in the Forest Technology program are uniquely prepared for careers in the forest industries and natural resource management in New Hampshire and New England. Classroom lecture is backed up by practical field work in each of the subject areas. The curriculum is accredited by the Society of American Foresters (the first two-year program in the U.S. to earn this designation) and reviewed by an advisory committee representing the full spectrum of forestry organizations in the region. There is strong emphasis on leadership, safety, communication skills, accuracy of field work, data collection, and professional presentation. Unique facilities for teaching and learning include centrally located classroom and shop facilities; 3,000+ acres of University-owned forest land; a sawmill; logging equipment; technologically advanced navigation, data collection and analysis equipment; and a faculty with vast field experience in the subject areas dedicated to teaching.

Admissions Requirement

Applicants to the Forest Technology specialization must present at least two years of satisfactory work in both college preparatory mathematics and science (one of them being biology, with a lab).

Curriculum Fee

Forest Technology, specialization, \$554*

Forest Technician

Forest technicians help plan, direct, and operate forestry enterprises. Students in the forest technician specialization experience a breadth

*This one-time, nonrefundable curriculum fee is required to cover lab materials, specialized equipment maintenance, and transportation that is unique to the applied nature of the specialization. The curriculum fee covers the entire two-year course of study for one specialization. Any non-TSAS student may be assessed specific course fees, details of which are included in each semester's Time and Room Schedule. All fees are subject to change.

and depth of instruction. They are exposed to the theory and practice of planting, thinning, and other silvicultural operations, including harvesting supervision. They learn how to design, lay out, and construct roads and trails; how to map and survey property; and how to manage woodlands to improve timber quality and wildlife habitat and conserve soil, water, and other natural resources. Graduates work in the wood products-related industries, in public forestland management agencies, with forestry consulting firms or urban tree care companies, and with a range of conservation organizations. Graduates can become licensed in New Hampshire to practice forestry on private lands.

Career Opportunities: Forestry consultant, fire control technician, mapping technician, GIS/GPS technician, timber and log buyer, log scaler, lumber grader, sawmill technician, arborist, urban tree care specialist, timber cruiser/forest inventory technician, forestry equipment/products sales representative.

Forest Technician Program of Study

First Year, Fall Semester

FORT 261, Dendrology, 3 cr.
FORT 263, Forest Ecology, 3 cr.
FORT 265, Forest Orientation Seminar, 1 cr.
FORT 283, Forestry Computer Applications, 1 cr.
COM 209, Expository Writing and Reading, 4 cr.
MTH 203, Algebra and Trigonometry, 3 cr.

First Year, Spring Semester

FORT 260, Forest Mapping, 2 cr.
FORT 266, Forest Surveying, 4 cr.
FORT 270, Applied Silviculture, 4 cr.
FORT 275, Forestry Field Practices, 1 cr.
FORT 280, Aerial Photography Interpretation, 2 cr.
SSCI 202, Social Issues, 4 cr.

Second Year, Fall Semester

FORT 269, Wildlife Ecology and Conservation, 3 cr.
FORT 272, Mensuration, 4 cr.
FORT 277, Logging, 4 cr.
FORT 281, GIS for Foresters, 2 cr.
FORT 297, Forestry Work Experience, 0 cr.
COM 210, Public Speaking, 2 cr.
or COM 211, Critical Reading, 2 cr.
or COM 212, Technical Writing, 2 cr.
Electives, 2-4 cr.

Second Year, Spring Semester

FORT 267, Leadership, Supervision & Safety, 2 cr.
FORT 273, Management Operations and Analysis, 3 cr.
FORT 274, Industrial Forest Management Tour, 1 cr.
FORT 276, Forest Products, 4 cr.
FORT 278, Forest Insects and Diseases, 2 cr.
FORT 279, Forest Fire Control and Use, 2 cr.
Electives, 2-4 cr.

Total: 65-69 credits

Horticultural Technology (HT)

www.thompsonschoo.unh.edu/ht

(For course descriptions, see page 267.)

Professor: John L. Hart

Associate Professor: Rene J. Gingras, Dana M. Sansom

Assistant Professor: John A. Leahy Jr.

Horticultural Technology students study applied plant science, preparing for environmentally attuned careers in “the green industry.” Rigorous first-year foundation courses in plant materials, plant growth and development, and soils support second-year specializations in ornamental horticulture or landscape operations. Employment opportunities in these areas continue to be excellent. Graduates enter a rapidly expanding job market in ornamental plant production, floral design, nursery and garden center management, fruit and vegetable production, parks and grounds management, and landscape design, construction, and maintenance. Many recent graduates have established their own horticulture enterprises, and others continue their education toward a four-year degree in areas such as environmental horticulture, floriculture/greenhouse management, or business management. Another option that is available to Thompson School students is to continue for a third year to complete the requirements for the specialization in Business Management offered through the Applied Business Management Program.

Admissions Requirements

Applicants to the Horticultural Technology specialization must present at least two years of satisfactory work in both college preparatory mathematics and science (one of these being biology, with a lab).

Curriculum Fee

Horticultural technology: both specializations, \$639*

Ornamental Horticulture

Students who prefer to be generalists in horticultural technology may opt for the ornamental horticulture specialization. Students gain the broadest possible background in horticultural technology, which is attractive to employers in all specialty areas. To succeed in ornamental horticulture, students require a

*This one-time, nonrefundable curriculum fee is required to cover lab materials, specialized equipment maintenance, and transportation that is unique to the applied nature of the specialization. The curriculum fee covers the entire two-year course of study for one specialization. Any non-TSAS student may be assessed specific course fees, details of which are included in each semester's Time and Room Schedule. All fees are subject to change.

degree of technical and scientific expertise as well as creativity and problem-solving skills. They first complete core requirements in the fundamentals of plant growth and development, soils, plant propagation, plant identification, and plant health care. Then students work closely with a faculty adviser to choose approved elective coursework to round out their program of study. In their classes, students meld theory and practice then apply what they learn in weekly lab periods and on-site visits to area operations.

Career Opportunities: Owner/manager of a garden center, nursery, flower shop, or fruit and vegetable business; wholesale/retail plant producer; research/botanical garden technician; floral designer.

Ornamental Horticulture Program of Study

First year, Fall Semester

HT 201, Freshman Seminar, 1 cr.
HT 205, Plants, People and Place, 2 cr.
HT 207, Plant Structure and Function, 4 cr.
HT 215, Soils and Land Use (Half-term I), 2 cr.
HT 219, Computers in Horticulture, 1 cr.
HT 227A, Horticultural Facilities Management, 2 cr.
COM 209, Expository Writing and Reading, 4 cr.

First Year, Spring Semester

HT 204, Plant Propagation, 4 cr.
HT 217, Soils and Plant Nutrition (Half-term I), 2 cr.
HT 227B, Horticultural Facilities Management, 2 cr.
MTH, Mathematics course, 3 cr.
SSCI 203, Environmental Issues and Society, 2 cr.
HT 234, Pest Management, 4 cr.

Second Year, Fall Semester

HT 227C, Horticultural Facilities Management, 1 cr.
HT 240, Introduction to Floral Design, 2 cr.
HT 275, Floriculture Crop Production, 2 cr.
HT 286, Fruit and Vegetable Production, 3 cr.
HT 297, Horticultural Work Experience, 2 cr.
COM 210, Public Speaking, 2 cr.
or COM 211, Critical Reading, 2 cr.
or COM 212, Technical Writing, 2 cr.
Approved Electives 4-8 cr.

Second Year, Spring Semester

HT 227D, Horticultural Facilities Management, 1 cr.
HT 258, Herbaceous Ornamental Plants, 2 cr.
HT 276, Bedding Plant Production, 2 cr.
HT 288, Horticultural Business Management, 4 cr.
HT Electives 3-7 cr.
SSCI 201, Human Relations, 4 cr. or
SSCI 202, Social Issues, 4 cr.
Approved Electives 3-7 cr.

Total: 66-72 credits

Landscape Operations

Landscape horticulture has been projected to be one of the fastest growing service indus-

tries of the coming decade. It is a field that also offers unparalleled aesthetic satisfaction and meaningful reward. To succeed in landscaping increasingly requires a degree of technical and scientific expertise, as well as creativity, artistry, and problem-solving skills. Students in the landscape operation specialization gain a solid foundation by completing core requirements in the fundamentals of plant growth and development, soils, plant identification, pruning, and plant health care. They then complete a series of landscape maintenance, construction, design, and business courses. This combination prepares them to become successful members of the landscape industry. In their classes, students meld theory and practice, then apply what they learn in weekly lab periods and on-site visits to area operations.

Career Opportunities: Landscape designer; landscape construction specialist; garden center/ nursery sales; maintenance/management for golf courses, schools and parks, private and public grounds.

Landscape Operations Program of Study

First Year, Fall Semester

HT 201, Freshman Seminar, 1 cr.
HT 205, Plants, People and Place, 2 cr.
HT 207, Plant Structure and Function, 4 cr.
HT 215, Soils and Land Use (Half-term I), 2 cr.
HT 219, Computers in Horticulture, 1 cr.
COM 209, Expository Writing and Reading, 4 cr.
SSCI 203, Environmental Issues and Society, 2 cr.

First Year, Spring Semester

HT 217, Soils and Plant Nutrition (Half term I), 2 cr.
HT 234, Pest Management, 4 cr.
HT 256, Horticultural Pruning, 2 cr.
MTH, Mathematics course, 3 cr.
SSCI 201, Human Relations, 4 cr.
or SSCI 202, Social Issues, 4 cr.
Approved Electives 1-5 cr.

Second Year, Fall Semester

HT 251, Introduction to Design Communication, 2 cr.
HT 257, Woody Landscape Plants, 3 cr.
HT 260, Grounds Maintenance, 2 cr.
HT 263, Landscape Construction, 4 cr.
HT 297, Horticultural Work Experience, 2 cr.
COM 210, Public Speaking, 2 cr.
or COM 211, Critical Reading, 2 cr.
or COM 212, Technical Writing, 2 cr.
Approved Electives 1-5 cr.

Second Year, Spring Semester

HT 258, Herbaceous Ornamental Plants, 2 cr.
HT 270, Grounds Management (Half-term II), 2 cr.
HT 272, Landscape Design Studio, 4 cr.
HT 288, Horticultural Business Management, 4 cr.
Approved Electives 4-8 cr.

Total: 66-72 credits