

UNIVERSITY OF NEW HAMPSHIRE AT MANCHESTER

www.unhm.unh.edu

Kristin R. Woolever, Dean
Daniel W. Reagan, Associate Dean

Bachelor of Arts

Biological Sciences
Business
Communication Arts
English
History
Humanities
Politics and Society
Psychology
Undeclared

Bachelor of Science

Computer Information Systems
Electrical Engineering Technology
Computer Technology Option
Mechanical Engineering Technology
Sign Language Interpretation

Associate in Arts

General Studies

Associate in Science

Biological Sciences
Business Administration

Applied Associate in Science

Community Leadership

Certificate Programs for Professional Advancement

Business and Accounting Skills for Managers
Communication Skills for Managers
Human Behavior Studies
Conflict Management
Community Leadership

College Transition Program

Teacher Education (5 year BA/MA)

The University of New Hampshire at Manchester was established in 1985 as the University's sixth college to provide access to UNH associate, bachelor, and graduate degree programs for people who live and work in central New Hampshire. The college combines the tradition of liberal arts and professional degree programs with a focus on science and technology in a rich, urban learning environment. UNH Manchester is centrally located in Manchester's historic mill yard, where it has served as a catalyst for the revitalization of the city's downtown area and symbolizes the region's growth and diversity.

UNH Manchester Degree Programs

(For a complete listing of undergraduate programs, go to www.unhm.unh.edu.)

UNH Manchester offers University of New Hampshire bachelor of arts and science degree programs in the humanities, social sciences, and technology. Each year more than 1,600 students who live and work in the Merrimack Valley region choose UNH Manchester for its range of educational resources and positive learning environment. The UNH Center for Graduate & Professional Studies is located at the UNH Manchester campus and offers UNH graduate degree and professional programs to working professionals in the region.

UNH Manchester's small classes encourage interaction between faculty and students and support educational excellence. Students find a convenient, affordable university education designed to meet the unique requirements of commuting students. The University Center, located in Manchester's historic mill yard at 400 Commercial Street, is convenient and easily accessible by major highways and city bus service.

Undergraduate degree students in Manchester earn the same UNH degree as their peers on the Durham campus. Students are required to satisfy University admission and graduation requirements, which include completion of at least 128 credits, a 2.0 minimum cumulative grade-point average, general education requirements, and, for the bachelor of arts degree, a foreign language requirement. The foreign language is not required in the bachelor of science programs.

Students also may pursue UNH associate in arts or associate in science degree programs full or part time with a choice of concentrations. Requirements for the associate degrees include completion of 64 credits, a 2.0 minimum grade-point average, and an interdisciplinary core course. Those students who complete the last 16 credits of the associ-

ate degree with a grade-point average of at least 2.5, earn a cumulative associate degree grade-point average of 2.5 or higher, and are recommended by their academic advisers are guaranteed admission to a baccalaureate program at the University in either Durham or Manchester. The University does not, however, guarantee admission to a specific college or program.

Selected graduate degrees from UNH also are available through the University of New Hampshire at Manchester.

Minors

The following academic minors are available at UNH Manchester for enrolled baccalaureate candidates. Further information may be obtained from the Academic Counseling Office, (603) 641-4170.

American Sign Language and Deaf Studies
Art
Business
Communication Arts
Computer Information Systems
Education
English
History
Humanities
Philosophy
Political Economy
Political Science
Psychology
Sociology
Women's Studies

Pre-Majors

Students entering the associate in arts program in general studies may prepare for transfer admission to many baccalaureate degree programs available through the University's Manchester and Durham campuses. By working closely with an academic counselor, general studies students can select structured course plans or pre-majors that are compatible with almost every baccalaureate major.

Certificate Programs for Professional Advancement

UNH Manchester's credit certificate programs are designed for individuals who want to enhance their credentials for a new position or to take the first step toward a college degree. The programs also meet the needs of working professionals with post-secondary degrees who need to expand their knowledge or update their skills.

Each program provides a concentrated learning experience in a specific subject area designed for students with varied educational backgrounds and experience. The college's accessible course schedules allow students to attend day or evening classes, full or part time.

Requirements

Students must complete between 16 and 20 credits at UNH Manchester in their chosen program to earn a certificate. Students must maintain an overall GPA of 2.0 or better in all courses. Some certificates require a minimum grade of C in each certificate course.

A certificate of completion will be awarded to those who successfully meet program requirements. Individuals completing a certificate program will be invited to participate in UNH Manchester's commencement ceremonies.

Enrollment

Individuals interested in enrolling in a certificate program for professional development must complete the enrollment form. The completed form and a \$20 enrollment form processing fee should be submitted to the UNH Manchester Office of Admissions at least 10 working days before the start of a semester or a summer session to ensure priority processing. Contact the Office of Admissions for more information or to request an enrollment form at (603) 641-4150.

Conflict Management in Organizations

Understanding the power and potential of conflict is an essential skill for everyone working in contemporary organizations. This certificate program prepares students to manage conflict more productively among individuals and groups. As a result of the in-depth study and hands-on applications of core intrapersonal, interpersonal, group, and structural conflict management skill, students will be able to frame conflict more collaboratively, mediate differences, negotiate win-win solutions, and work with a variety of conflict styles. They also will learn how to design and implement many types of community forums and facilitate more effective meetings.

Choose four of the following:

CMN 457, Intro to Interpersonal Communication
 CSL 204, Managing Change and Conflict in Communities
 CSL 205, Communication within Communities
 CA 508, Conflict in Relational Communication
 CA 550, Special Topics: Mediation and Negotiation

Chose one of the following:

CA 450, Introduction to Public Speaking
 CA 506, Gender
 CSL 201, Introduction to Community Leadership
 CSL 292, Meeting Management
 CA 611, Theories of Relational Communication

Community Leadership

The certificate in Community Leadership is designed for part-time students, with or without post-secondary degrees, who want to enhance their expertise in such areas as fundraising, recruiting and supervising volunteers, facilitating meetings, speaking in public, organizing events, and creating newsletters. Students will combine academic inquiry and hands-on community outreach with intensive skill development. This certificate prepares individuals who are either already experienced community workers or who are considering a career change for entry-level supervisory positions such as volunteer coordinator, grant-writer, services advocate, public relations and marketing assistant, community organizer, and lobbyist.

Select 16 credits from the following courses:

CSL 202, Introduction to Non-Profit Organizations
 CSL 203, Organizing and Supervising Volunteers
 CSL 204, Managing Change and Conflict in Communities
 CSL 205, Communication within Communities
 CSL 208, Essentials of Fundraising for Community Organizations
 CSL 209, Essentials of Grant Writing for Community Organizations
 CSL 290, Civil and Community Internship

Communication Skills for Managers (Four courses, 16 credits)

The fundamentals of oral and written communications are presented in this certificate program. Critical thinking is emphasized. Students learn to read, write, and speak more effectively both personally and professionally.

Business and Accounting Skills for Managers (Four courses, 16 credits)

Students gain a basic understanding of American businesses and how they work. A general overview of the functional areas in business as well as fundamental concepts of accounting, finance, and the use of computers to manage information is presented in the coursework.

Human Behavior Studies (Four courses, 16 credits)

An understanding of psychological, cultural, and social aspects of human behavior is developed in this program. The coursework explores how culture and intellect influence behavior and communication with others.

Application Deadlines

The UNH Manchester application deadline for the fall semester is June 15 and for the spring semester is November 1. For priority consideration for financial aid, the application deadline is March 1 for the following academic year.

For More Information

The UNH Manchester catalog is available online at www.unhm.unh.edu/pdf/catalog/catalog.pdf. To request a catalog or more specific information about UNH Manchester courses and degree programs, contact the Office of Admissions, University of New Hampshire at Manchester, University Center, 400 Commercial Street, Manchester, NH 03101, e-mail UNHM.admissions@unh.edu; phone (603) 641-4150; fax (603) 641-4125; TTY/TTD (603) 641-4308.

College Transition Program

The University of New Hampshire at Manchester's College Transition Program (CTP) enables students to begin their University studies as candidates for the associate in arts degree while receiving an intensive, year-long (two semesters) plan of academic support and study skill enhancement.

Students are identified as CTP-eligible during the standard admission application review process. CTP students are required to supplement their academic schedules with noncredit coursework to strengthen study skills.

Attendance at the New Student Orientation, mandatory testing and placement, and enrollment in the CTP support services and course work are required for all CTP students. After orientation, CTP students work closely with academic advisers to design appropriate course plans, establish performance goals, determine which learning support services are required, and monitor academic achievement.

Students who successfully complete two semesters of CTP may continue to earn their associate degree through either full-time or part-time study.

College Transition Program for ESOL Students

The College Transition Program (CTP) for ESOL students is an innovative program designed to help students prepare for success in college and in life. Beginning in the fall semester, students join a learning community on the UNH Manchester campus. A combination of academic assessments and individual advising will guide students to appropriate courses in writing, reading, and mathematics.

The College Transition Program for ESOL students is a year-long program combining academic courses with a variety of activities and workshops designed to build the skills for success in college. Beyond academic courses, the program includes:

- orientation and on-going academic advising where students learn about college resources and how to successfully navigate the college environment;
- math and English assessments that help students choose classes to build on prior knowledge and prepare to achieve their goals;
- appropriate levels of ESOL classes when deemed appropriate;
- mentors who encourage students to explore their interests, develop skills, and prepare for their future;
- academic support seminars where students learn study skills and test taking techniques that will build confidence in the classroom and improve student success;
- student clubs and activities where students become part of the college community and develop organizational and leadership skills that will last a lifetime.

The College Transition Program for ESOL students is open to people with a high school diploma. Interested applicants are encouraged to apply before April 1, the priority deadline for the fall semester. Potential students and their families are encouraged to meet with an admissions counselor from the UNH Manchester Office of Admissions. Students will learn about the application process and how the program can help them achieve their goals.

For more information, please contact the UNH Manchester Office of Admissions at (603) 641-4150 or e-mail unhm.admissions@unh.edu.

Associate Degree Programs

General Studies

The Associate of Arts in General Studies offers students academic flexibility in a program that combines the foundations of a liberal education and elective courses that satisfy personal interests. The A.A. in General Studies is the first two years of a baccalaureate program, and all 400-level courses transfer to and fulfill the University's general education requirements. Students who earn an A.A. in General Studies have a foundation for continued study in any major while they develop problem-solving ability, cognitive skills, and learning techniques that are vital to a lifetime of learning. Many students begin their college study in the A.A. General Studies program. Depending on personal interests and academic goals, students may choose to apply to a baccalaureate degree program prior to completion of the A.A. degree.

To graduate with an Associate of Arts Degree in General Studies, students must complete 64 credits, earn a minimum cumulative grade-point average of 2.0, and fulfill two types of requirements: University (general education) and degree requirements. The program includes nine courses from the general education curriculum. Working with their advisers, students enhance their program of study with elective courses where they can explore their interests and possible baccalaureate degree majors. The last 16 hours of credit must be UNH courses completed following admission and matriculation, unless permission is granted to transfer part of this work from another institution.

The AA General Studies program includes the following course requirements:

- Two writing-intensive courses, one of which must be ENGL 401, First-Year Writing
- One course in quantitative reasoning
- Two courses in biological sciences, physical sciences, or technology
- One course in historical perspectives
- One course in foreign culture or fine arts
- One course in social science
- One course in works of philosophy, literature, and ideas
- Completion of interdisciplinary core course, Humanities I or Humanities II
- Elective courses

For more information about the A.A. in General Studies, please contact the UNH Manchester Office of Admissions at (603) 641-4150; e-mail unhm.admissions@unh.edu.

Biological Sciences

Biology is the study of living organisms in both laboratory and field conditions. It concerns itself with questions of understanding the living world, its complex interrelationships, and the role of human beings within it.

The biological sciences program at UNH Manchester is designed to serve either as a terminal degree or as a springboard for students interested in the life sciences, which include majors in biology, microbiology, zoology, plant biology, wildlife management, environmental conservation, biochemistry, and animal sciences. Employment opportunities in the public and private sectors include education, food, water, wastewater and other industrial laboratories, clinical laboratories, biotechnology, environmental research and monitoring, and animal behavior.

Students must complete a minimum of 68 credits to graduate. There are two tracks in the A.S. degree program at UNH Manchester: biology and microbiology.

Biology Track Requirements

- Math 425, Calculus I
- PSYC 402, Statistics in Psychology (BIOL 528, Applied Biostatistics, offered on the Durham campus, may be substituted)
- BIOL 413, Principles of Biology I
- BIOL 414, Principles of Biology II
- CHEM 403, General Chemistry I
- CHEM 404, General Chemistry II
- MICR 503, General Microbiology
- CHEM 545/546, Organic Chemistry and Organic Chemistry Laboratory
- BCHM 658/659, General Biochemistry and General Biochemistry Laboratory
- BIOL 541, General Ecology
- BIOL 604, Principles of Genetics

Microbiology Track Requirements

- Students opting for the microbiology track must take all courses listed in the biology program with the exception of BIOL 541, General Ecology.
- Two additional courses selected from MICR 504, Brewing and Industrial Microbiology; MICR 602, Pathogenic Microbiology; or MICR 603, Bacteriology of Food, are required of students in the microbiology track.
- Note:* Pre-medical and pre-dental students should enroll in CHEM 651-652 and 653-654 at Durham. These courses may substitute for CHEM 545/546 and BCHM 658-659. In addition they should also enroll in MATH 426.

For more information about the biological sciences program, contact Stephen Pugh, program coordinator, (603) 641-4128; e-mail spugh@unh.edu. Or contact the UNH Manchester Office of Admissions at (603) 641-4150; e-mail unhm.admissions@unh.edu.

Business Administration

The Associate of Science degree program in Business Administration prepares students for admission to a baccalaureate program in business or for the first step to a managerial or administrative career. The program builds on the University's General Education program with required and elective courses in the business administration major and utilizes the resources of Manchester's business community and its economic strengths. Students develop an understanding of accounting, economics, and computer applications and learn about the legal aspects of business, interpersonal communication, business statistics, and technology through the elective courses.

Associate Degree in Business Administration Program of Study

Students must complete a minimum of 68 credits to graduate with an Associate of Science degree in Business Administration. A minimum cumulative GPA of 2.0 is required for graduation. In addition to completing 10 general education courses, students must complete seven courses (28 credits) in the major.

Required Courses

ADM 400, Introduction to Business
CIS 411, Introduction to Computer Applications
ECN 412, Introduction to Microeconomics
ADM 532, Introduction to Financial Accounting
ADM 533, Introduction to Managerial Accounting

Business Administration Electives

Choose two of the following courses. Students may select electives from 600-level ECN or ADM courses with adviser permission.*

ADM 430, Introduction to Business Statistics
CIS 510, Computer Information Systems
CIS 515, Multimedia: Introduction & Applications
CIS 520, Database Management Concepts
CIS 542, Operating System Applications
CMN 457, Introduction to Interpersonal Communication
CA 450, Public Speaking
ECN 411, Introduction to Macroeconomic Principles
ECN 625, The Regulation of Business
ECN 635, Money, Banking, and Macroeconomic Activity
ECN 640, Business Law and Economics
ECN 650, Economics for Managers
Other 600-level ECN or ADM courses by permission

*Students planning to pursue the B.A. in Business should select ADM 430, Introduction to Business Statistics, and ECN 411, Introduction to Macroeconomic Principles.

For more information about the A.S. Business Administration Program, contact Tom Birch, program coordinator, at (603) 641-4108; e-mail tbirch@unh.edu. Or contact the Office of Admissions at (603) 641-4150; e-mail unhm.admissions@unh.edu.

Community Leadership

The A.A.S. in Community Leadership is designed for students who wish to transform a passion for community activism into a rewarding career. The program welcomes students with a range of experiences and goals including recent high school graduates, those preparing for a career change, or those who are already working in community service. Students combine classroom experience with experiential learning and develop valuable skills such as supervising volunteers, facilitating meetings, speaking in public, organizing events, writing press releases, fundraising, and creating newsletters.

Community Leadership is one of only a handful of programs nationwide to combine hands-on community outreach with an academic study of leadership, communities, citizen influence, and non-profit organization management. Because of this unique curriculum, the program is included as part of the New England Regional Student Program in all of the New England states.

The program, which originated at the University's Thompson School on the Durham campus, provides UNH Manchester students with a unique urban experience. Students participate in a rigorous academic program that prepares them for continued study at the baccalaureate level and beyond.

Guided by involved faculty, students apply their knowledge to their work on campus, in schools, crisis shelters, environmental organizations, animal care facilities, nursing homes, advocacy programs, town offices, citizen groups, or other community-related organizations. By combining academic and real-world experience, students learn how to work collaboratively in leadership roles to find positive solutions to shared problems and to effect social change at local, regional, and national levels.

For more information about the A.A.S. in Community Leadership contact Kate Hanson, program director, at (603) 862-1064, or e-mail kate.hanson@unh.edu. Contact the UNH Manchester Admissions Office at (603) 641-4150, or e-mail unhm.admissions@unh.edu.

Program Requirements and Sample Full-time Program of Study

First Year, Fall Semester

CSL 201, Introduction to Community Service & Leadership, 4 cr.
ENGL 401, First-year Writing, 4 cr.
CIS 411, Introduction to Computer Applications, 4 cr.

One of the following:

SOC 400, Introduction to Sociology, 4 cr.
POLT 402, Introduction to American Government, 4 cr.
POLT 407, Law and Society, 4 cr.

Firsts Year, Spring Semester

CSL 202, Introduction to Nonprofit Organizations, 4 cr.
CSL 203, Organizing and Supervising Volunteers, 4 cr.
CSL 205, Communication within Communities, 4 cr.

One of the following:

MTH 301, Elementary Math I, 4 cr.
MTH 302, Elementary Math II, 4 cr.
MTH 420, Finite Math, 4 cr.

Second Year, Fall Semester*

CSL 204, Managing Change & Conflict in Communities, 4 cr.
CSL 207, Introduction to Nonprofit Budgeting & Accounting, 3 cr.
CSL 290, Civic and Community Internship, 3 cr.
CA 450, Public Speaking, 4 cr.
CMN 457, Introduction to Interpersonal Communication, 4 cr.

* Students also will participate in a significant leadership program or project

Second Year, Spring Semester

CSL 206, Literature of Family and Community, 4 cr.
CSL 208, Essentials of Fundraising for Community-based Organizations, 2 cr.
CSL 209, Essentials of Grant Writing for Community-based Organizations, 2 cr.
CSL 210, Capstone Seminar, 4 cr.
Elective, 4 cr.

Programs of Study

Biological Sciences

(For course descriptions, see page 270.)

Associate Professor: Lorraine D. Doucet, Stephen R. Pugh

Assistant Professor: Sarah Kenick

Biology is the study of living organisms in both laboratory and field conditions. It concerns itself with questions of understanding the living world, its complex interrelationships, and the role of human beings within it.

The B.A. in biological sciences at UNH Manchester is designed to: 1) allow students to earn a baccalaureate degree in biology at UNH Manchester; 2) allow students to combine study in biology with other programs and disciplines by completing a second major, a minor, or a self-designed set of elective courses along with their biology degree; 3) allow students to complete a major in biology while taking required courses in education in preparation for the five-year M.A.T. or M.Ed. programs and state certification in secondary science education; and 4) provide an opportunity for students to complete a baccalaureate degree in biology while completing the required courses for admission to medical, dental, veterinary, physician assistant, pharmacy, physical therapy, and other professional graduate programs.

The biological sciences program at UNH Manchester also can serve as a springboard

for students interested in the B.S. programs in the life sciences at UNH Durham, which include majors in biology, microbiology, zoology, plant biology, wildlife management, environmental conservation, biochemistry, and animal sciences.

Employment opportunities in the public and private sectors include education; food, water, wastewater and other industrial laboratories; clinical laboratories; biotechnology; environmental research and monitoring; and animal behavior.

Students must complete a minimum of 128 credits and satisfy the University's general education and foreign language requirements. BIOL 413, 414, and CHEM 403, 404 may be used to satisfy the Group 3 general education requirement. PSYC 402 may be used to satisfy the Group 2 General Education requirement; however, students interested in graduate or professional programs would be encouraged to take MATH 425, Calculus I, to satisfy the Group 2 requirement.

The UNH Manchester B.A. in biological sciences program is structured with three levels of coursework.

Biology Core Curriculum (nine courses, 37 credits)

Five required biology courses

BIOL 413-414, Principles of Biology I and II
MICR 503, General Microbiology
BIOL 541, General Ecology
BIOL 604, Principles of Genetics

Two required chemistry courses

CHEM 403-404
General Chemistry I and II

One course in mathematics

MATH 418, Analysis and Application of Functions, or MATH 425, Calculus I

One course in statistics

PSYC 402, Statistics in Psychology (other statistics courses such as BIOL 528 or ADM 430 may be used to satisfy this requirement)

Depending on their specific academic and career goals, and in consultation with their adviser, students may elect to take additional supporting science courses such as CHEM 545/546, Organic Chemistry with lab (one semester); CHEM 547/549 and/or 548/550, Organic Chemistry I and II with lab (two semesters); BCHM 658/659, Biochemistry with lab; MATH 426, Calculus II; and Physics 407-408, General Physics I and II. These courses often are required for admission to medical, professional, and other graduate programs.

Self-designed Concentration in Biology (four courses, 16 credits)

Students will select, in consultation with their adviser, four biology courses at the 600-700 level to be taken at UNH Manchester or UNH Durham.

Capstone Experience

The Capstone Experience will be fulfilled by taking two one-credit courses, BSCI 701, Senior Studies, during both semesters of the senior year and a capstone experience, such as BSCI 600, Field Experience, BSCI 701, Internship in Biology, or BSCI 701, Independent Study. Senior Studies will meet weekly during both semesters of the senior year in a seminar format to share information about students' research or independent study activities, listen to presentations on timely issues in biology, and support and provide training in poster production, PowerPoint and other methods of oral presentation, and scientific writing as they prepare to present the results of their capstone activities at the Undergraduate Research Conference or other venues.

In addition, all students will take elective courses to fulfill the 128-credit requirement for a B.A. degree. These elective courses could fulfill the requirements for a major or minor in another program or they could fulfill a self-designed interdisciplinary concentration. They could include some of the supporting science courses listed above. These courses would be selected in consultation with their adviser and the appropriate faculty adviser in another program.

Note: Pre-medical and pre-dental students should enroll in CHEM 651-652 and 653-654 at Durham. These courses may substitute for CHEM 545/546 and BCHM 658-659. In addition they also should enroll in MATH 426.

For more information about the biological sciences program, contact Stephen Pugh, program coordinator, at (603) 641-4128, or e-mail spugh@unh.edu. Contact the UNH Manchester Office of Admissions at (603) 641-4150, or by e-mail to unhm.admissions@unh.edu.

Business (ADM)

www.unhm.unh.edu/programs/business/index.html

(For course descriptions, see page 269 and 273.)

Associate Professor: Kelly Kilcrease, Tom Birch

Instructor: Walter Alderman

Lecturer: William Troy

The B.A. in business has a strong interdisciplinary focus. The curriculum adheres to a philosophy that effective decision-making requires a broad understanding of institutional and cultural climate within which businesses are operating. The program utilizes the re-

sources of Manchester's business community and its economic strengths. During the first two years of study, students take introductory classes in business administration, economics, accounting, business statistics, and information systems along with elective and general education classes. The intermediate business core includes required courses in marketing, organizational behavior and financial or operations management. Additionally, students choose an option of focused study either in business economics and political economy, business and technology, or general business administration. For students with a unique interest, the opportunity also exists to create a self-designed concentration with approval of his or her adviser and the coordinator of the business program.

A culminating capstone experience enables students to apply their knowledge in the form of an internship, applied senior project, or special topics seminar. Because this is a B.A. program, students fulfill the foreign language requirement.

For more information about the B.A. business administration program contact Kelly Kilcrease, program coordinator, at (603) 641-4186, or contact the Office of Admissions at (603) 641-4150, unhm.admissions@unh.edu.

Business Program of Study

Students must complete 128 credits to graduate. Each required course must be completed with a minimum grade of C-. Students must attain a minimum GPA of 2.0 in major courses required for graduation. Majors cannot use ADM 430, ECN 411, or ECN 412 to satisfy both general education and major requirements. Transfer students must complete at least half of their credits in the major and the eight-credit capstone experience in residence at UNH Manchester.

Introductory Business Core Courses (eight courses)

ADM 400, Introduction to Business
ECN 411, Introduction to Macroeconomic Principles
ECN 412, Introduction to Microeconomic Principles
CIS 411, Introduction to Computer Applications
CIS 510, Computer Information Systems
ADM 430, Business Statistics
ADM 532, Financial Accounting
ADM 533, Managerial Accounting

Intermediate Business Core (three courses)

ADM 610, Marketing Principles and Applications
ADM 620, Organizational Behavior
ADM 601, Financial Management,
or ADM 650, Operations Management

Business Field Concentrations (four courses)

Accounting and Finance

Four courses from the following:

- ECN 635, Money, Banking, and Macro Activity
- ADM 675, Special Topics: Auditing Taxation (pending)
- Investments (pending)
- Intermediate Accounting (pending)
- Budgeting (pending)
- ADM 685, Applications in Business Mgt.: International Finance

Business Economics and Political Economy

Four courses from the following (including at least one course at 600 level or above):

- POLT 401, Politics and Society
- POLT 403, United States in World Affairs
- POLT 560, World Politics
- ECN 640, Business Law and Economics
- ECN 625, Regulation of Business
- ECN 635, Money, Banking and Macroeconomic Activity
- ECN 650, Economics for Managers
- ECN 670, Public Sector Economics
- HUMA 412, Industry and Welfare
- HUMA 660, The Moral Dimensions of Economic Life
- POLT 595, 596, Explorations in Politics
- POLT 762, International Political Economy
- ADM 695, Independent Study

Business and Technology

Four courses from the following:

- CS 403, Online Network Exploration
- CIS 425, Introduction to Computer Programming
- CIS 515, Multimedia: Introduction and Applications
- CIS 520, Database Management Concepts
- CIS 550, Networking Concepts
- CIS 610, Systems Analysis & Design

General Business Administration

Four courses from the following (but including no more than two ECN courses):

- ADM 601, Financial Management or ADM 650, Operations Management
- ADM 675, Special Topics in Business Administration
- ADM 685, Special Topics in Business Administration
- ADM 695, Independent Study
- ECN 640, Business Law and Economics
- ECN 625, Regulation of Business
- ECN 635, Money, Banking and Macroeconomic Activity
- ECN 650, Economics for Managers
- UMST 500, Internship

Marketing

Four courses from the following:

A. At least two must be from marketing:

- ADM 675, Special Topics: Integrated Marketing Communications
- ADM 675, Special Topics: Services Marketing
- ADM 685, Special Topics: Selling & Sales Management
- ADM 685, Special Topics: E-Commerce

B. May also include two courses from:

- ADM 675, Special Topics: Negotiations
- ADM 695, Independent Study (Marketing/Communication Project)
- CA 450, Introduction to Public Speaking
- CMN 455, Introduction to Mass Communication
- CMN 457, Introduction to Interpersonal Communication
- CA 516, Speech Writing
- CA 531, History and Organization of Advertising
- CA 550, Communications and Organizations
- CA 610, Communication Technologies and Culture
- UMST 500, Internship (in Marketing or Communication)
- CIS 515, Multimedia Applications
- ET 625, Technical Communication
- ENGL 503, Persuasive Writing

Organizational Behavior

Four courses from the following:

A. At least two from:

- ADM 675, Special Topics: Negotiations
- ADM 675, Special Topics: Leadership
- ADM 685, Special Topics: Human Resource Management
- ECN 640 Business Law & Economics

May also include two from the following:

- ADM 695, Ind. Study (Org. Beh. – related project)
- CA 450, Public Speaking
- CMN 455, Into to Mass Communication
- CMN 457, Interpersonal Communications
- CA 550, Communications & Organizations
- CA 610, Communication Technology & Culture
- PSYC 513, Cognitive Psychology
- PSYC 553, Personality

Self-Designed Concentration

Four courses (or 16 credit hours) with faculty approval, including at least one course at 500-level or above.

Business Capstone Experience (two courses)

- ADM 701, Business, Government and Society
- ADM 750, Business Internship Seminar or
- ADM 760, Applied Senior Project or
- ADM 770, Special Topics Senior Seminar

Note: Because this is a Bachelor of Arts program, students must fulfill a language requirement. Efforts will be made to enhance fluency through subsequent courses and community experiences.

Communication Arts

www.unhm.unh.edu/programs/ca/index.html

(For course descriptions, see page 270.)

Associate Professor: Barbara J. Jago, Jeffrey F. Klenotic, Anthony Tenczar

Assistant Professor: Patrice T. Mettauer

Students majoring in communication arts explore the how and why of the ways humans communicate through their words, actions, and technologies. The program examines a variety of communication practices—moving image media, news, and personal relationships—as these are applied and developed

across a range of social, cultural, professional, organizational, and historical contexts. In addition to classroom instruction, the program provides students with opportunities for fieldwork (including internships and service learning initiatives) that connect them to the urban community and integrate their education within “real life” communication settings.

Communication arts prepares students for many careers and postgraduate options, including advanced graduate study. Students emerge from the program with a rare combination of hands-on and theoretical knowledge that is attractive to employers from industries and professions such as film, radio, television, journalism, public relations, sales, advertising, counseling, conflict mediation, and others. The communication arts degree also translates well to related work in government, social service, and community affairs. Employers in the general business community seeking well-rounded, liberal arts graduates who can communicate effectively in a variety of mediums also find program graduates highly desirable. Furthermore, through internships students have the opportunity to learn more about their chosen fields and better prepare themselves for the transition to professional life.

Beyond the academic and professional rewards, study in communication arts enhances the meaning and richness of everyday life by enabling students to better see and understand the intricate ways in which communication binds people together.

For more information, contact Barbara Jago, program director, at (603) 641-4106, or by e-mail to bjago@comcast.net. Visit the communication arts Web page at www.unhm.unh.edu/programs/ca, or contact the Office of Admissions at (603) 641-4150.

Degree Requirements

Communication arts majors must complete 10 courses (40 credits) and maintain an overall grade-point average in the major of 2.0 or better. Transfer students must complete at least 20 credits in the CA major at UNH Manchester. CMN 455, 456, and 457 may not be used to satisfy general education requirements for CA majors. Information on prerequisites for CA courses can be found in the course descriptions at the back of this catalogue. CA majors considering taking CIS 515, HIST 690, HUMA 796, or PSYC 762 must meet the necessary prerequisites for each course and should consult with their faculty adviser before registering. Degree requirements for the major are presented below.

I. Required Core Courses—12 credits (three courses)

Students must earn a C or better in each course if it is to count toward either the UNH Manchester Communication Arts major or the UNH Durham Communication major.

CMN 455, Introduction to Mass Communication
 CMN 456, Propaganda and Persuasion
 CMN 457, Introduction to Interpersonal Communication

II. Selected Coursework—28 credits (three courses from area A, two from area B, two from area C)

Students must earn a C- or better in each selected course to satisfy CA requirements.

A. Communication Practices: Applied (12 credits). Any three courses:

CA 450, Introduction to Public Speaking
 CA 501, Internship: Communication in the Urban Community
 CA 502, Image and Sound
 CA 503, Techniques for News Reporting
 CA 504, Film Criticism
 CA 506, Gender
 CA 508, Conflict in Relational Communication
 CA 510, Language and Interaction
 CA 512, Scriptwriting
 CA 513, Radio News Production
 CA 514, Fundamentals of Video Production
 CA 515, Advanced Video Production
 CA 516, Speechwriting
 CA 520, Special Topics in Applied Communication
 CIS 515, Multimedia: Introduction and Applications
 HIST 690, Public History
 PSYC 762, Counseling

B. Communication Practices: Organization, History, and Policy (eight credits). Any two courses:

CA 525, Media Programming
 CA 526, Organization of Newswork
 CA 527, History of Film
 CA 528, Media Policy and Law
 CA 530, Celluloid Relationships
 CA 531, History and Organization of Advertising
 CA 535, Marital Communication
 CA 539, Communicating in Families
 CA 550, Special Topics in Communication Organization, History, and Policy
 HUMA 640, Birth of Rock and Roll

C. Communication Practices: Theory and Research (eight credits). Any two courses:

CA 600, Research Methods: Media
 CA 601, Exploring Relationships
 CA 610, Communication Technologies and Culture
 CA 611, Theories of Relational Communication
 CA 612, Narrative
 CA 615, Film History: Theory and Method
 CA 618, Documentary
 CA 720, Seminar in Communication Arts
 CA 795, Independent Study

The core requirements for communication arts are identical to those for communication; therefore, credit for CMN 455, CMN 456, and CMN 457 automatically transfers for students transferring from Manchester to Durham to major in communication, as well as for students transferring from Durham

to Manchester to major in communication arts. All other courses in communication arts have a CA designation. The transfer of these courses to satisfy degree requirements for the communication major in Durham is determined on a course-by-course basis by communication faculty. Likewise, the transfer of communication courses (other than CMN 455, 456, 457) to satisfy degree requirements for the communication arts major in Manchester is determined on a course-by-course basis by communication arts faculty.

Suggested Concentrations in Communication Arts

Students are welcome to choose courses from across the communication arts curriculum, but those wishing to meet specific academic or professional goals may plan coursework using one of the concentrations suggested below. In addition, students may enhance their studies with activities beyond the classroom, including a wide range of internships available across the region. Communication arts students also may participate in the University's Web radio station, www.UNHM.net, as well as in numerous area film festivals.

Concentration in Moving Image Media

CA 501, Internship
 CA 502, Image and Sound
 CA 504, Film Criticism
 CA 512, Scriptwriting
 CA 514, Fundamentals of Video Production
 CA 515, Advanced Video Production
 CA 525, Media Programming
 CA 600, Research Methods: Media
 CA 610, Communication Technologies and Culture
 CA 615, Film History: Theory and Method
 CA 618, Documentary

Concentration in News

CA 450, Introduction to Public Speaking
 CA 501, Internship
 CA 503, Techniques for News Reporting
 CA 513, Radio News Production
 CA 525, Media Programming
 CA 526, Organization of Newswork
 CA 528, Media Policy and Law
 CA 600, Research Methods: Media
 CA 610, Communication Technologies and Culture
 CA 618, Documentary

Concentration in Relational Communication

CA 501, Internship
 CA 506, Gender
 CA 510, Language and Interaction
 CA 539, Communicating in Families
 CA 550, Special Topics: Marital Communication
 CA 601, Research Methods: Relational Communication
 CA 611, Theories of Relational Communication
 CA 612, Narrative
 CA 720, Seminar in Communication Arts

Computer Information Systems (CIS)

www.unhm.unh.edu/programs/cis/index.html

(For course descriptions, see page 271.)

Assistant Professor: Mihaela Sabin, Karla E. Vogel

The Bachelor of Science degree in computer information systems (CIS) prepares graduates with skills to work in the highly integrated field of computing systems and technology. The program focuses on functional areas of information technology (IT) that are used to manage computers, communications, and information resources within an organization. Students will:

- gain knowledge of computer information systems technology;
- collaborate with individuals and groups on design and implementation of application solutions;
- communicate effectively (written and oral) about deploying information technology;
- review and critically evaluate current trends in computer technology to select appropriate solutions for specific organizational goals;
- develop awareness of social and ethical issues in the computer profession.

Career opportunities for students with a CIS degree are varied, but may include such areas as database support and development, help-desk management, technical writing, systems analysis, Web development, network administration, and IT training. Career options exist in a wide range of organizations as all businesses continue to implement information technology solutions.

The CIS program is based on three levels of information technology courses, a self-designed concentration, and the general education requirements of the University. The CIS core courses prepare graduates with a broad foundation in computer information systems. The self-designed concentration prepares students to explore a specific area of CIS application.

Suggested areas include: business, education, writing, or communications. Students select a concentration in consultation with their adviser before their junior year.

Courses in Level One provide an understanding of the use of technology in organizations, develop competencies for personal productivity, and strengthen the student's ability to work in the information marketplace. Students select three courses.

Level One

CIS 405, Introduction to the Internet and Web Authoring
CIS 411, Introduction to Computer Applications
CIS 425, Introduction to Computer Programming
CIS 515, Multimedia: Introduction and Applications.

Courses in Level Two build on the introductory experiences and expand functional competencies in CIS. Students select four courses.

Level Two

CIS 510, Fundamentals of Computer Information Systems
CIS 520, Database Design and Development
CIS 542, Operating System Applications
CIS 550, Network Concepts
CIS 560, Computer Law and Ethics
CIS 570, Web Applications Development
CIS 599, Special Topics: Advanced Web Authoring
CIS 599, Special Topics: Project Management

Courses in Level Three focus on CIS development, implementation and project management. Students select three courses.

Level Three

CIS 610, Systems Analysis and Design
CIS 615, Information Security
CIS 620, Network Administration and Maintenance
CIS 630, Application Programming using Java
CIS 650, System Implementation with DBMS
CIS 680, Internship

Students complete 128 credits.

10 courses in the General Education program (40 credits)

13 courses in CIS (52 credits)

Four courses in a required self-designed concentration (16 credits)

Five free electives. (20 credits)

Required courses must be completed with a minimum grade of C.

Students must attain a minimum grade-point average of 2.0 in major courses required for graduation. Students must complete 24 credits of CIS courses in residence.

For additional information about the B.S. in computer information systems, contact Mihaela Sabin, program coordinator, at (603) 641-4144, or by e-mail to mihaela.sabin@unh.edu; or contact the Office of Admissions at (603) 641-4150.

Engineering Technology

www.unhm.unh.edu/programs/et/index.html

(For course descriptions, see page 273.)

Associate Professor: Ralph W. Draper, David A. Forest

Engineering technology requires the application of engineering and scientific knowledge and methods combined with technical skills in support of engineering activities. Graduates may work in a variety of areas, including engineering design, manufacturing, field service, testing, and sales, and may work in management positions related to engineering, manufacturing, and computer technology.

The UNH Manchester engineering technology programs are accredited by the Technology Accreditation Commission of ABET, 111 Market Place Suite 1050, Baltimore, MD 21202-4012, (410) 347-7700. The engineering technology program at UNH Manchester offers only junior- and senior-level coursework. Students admitted to this program must have an appropriate associate degree from the New Hampshire Technical Institute or an equivalent institution accredited by the Technology Accreditation Commission of the Accreditation Board of Engineering Technology (TAC/ABET) or show academic evidence of ability to successfully complete the requirements of this calculus-based program.

The programs at UNH Manchester are designed to meet the needs of both full- and part-time students with a mix of classes scheduled during the day and in the evening.

Engineering Technology Program of Study

Students may major in electrical engineering technology, electrical engineering technology with a concentration in computer technology, or mechanical engineering technology. Regardless of the preferred academic specialization, all entering students should have completed a minimum of 12 semester hours of college level mathematics, including two semesters of calculus. Students without this background will be required to take either MATH 426, Calculus II; or MATH 527, Differential Equations with Linear Algebra, during the first semester of the junior year. The typical junior and senior year course selections follow.

Electrical Engineering Technology (EET) and Electrical Engineering Technology with a Concentration in Computer Technology (EET-CT)

Educational Objectives

Program educational objectives are the skills and abilities graduates are expected to demonstrate during the first few years of employment. EET and EET-CT program educational objectives include:

- achieving employment in an EET and EET-CT-related position with appropriate title and compensation;
- demonstrating EET- and EET-CT-related technical problem-solving skills;
- functioning effectively in diverse and multidisciplinary teams;
- communicating effectively with both technical and non-technical audiences;
- adapting to changes in technology through continuous personal and professional development;
- being capable of assuming increasing professional responsibility;
- conducting all professional activities with integrity and demonstrating a sense of social and environmental responsibility.

Program Outcomes

Program outcomes are the skills and abilities students are expected to demonstrate at graduation. Program outcomes for the EET and EET-CT program include:

- using principles and tools of science, mathematics, engineering and technology to design, implement and evaluate solutions to complex technical problems;
- developing electronic and computer systems using appropriate test equipment (with an awareness of related hardware and software issues), and using results of analyses to improve designs or methodologies;
- successfully developing a meaningful hardware/software-based project that considers ethical, social, economic, and technical constraints;
- communicating effectively both orally and in writing Working effectively in a team environment;
- developing research and problem-solving skills to support lifelong personal and professional development;
- evaluating the broader effects of technology and identifying connections between technology and economics, politics, culture, ethical responsibility, social structure, the environment, and other areas.

Electrical Engineering Technology (EET)

ET 625, Technical Communications
 ET 630, Analytical Methods in Technology
 ET 671, Digital Systems
 ET 674, Control Systems & Components
 ET 677, Analog Systems
 ET 680, Communications and Fields
 ET 733, Business Organization and Law
 ET 734, Economics of Bus. Activities
 ET 762, Illumination Engineering
 ET 763, Lighting Design & Application*
 ET 788, Introduction to Digital Signal Processing
 ET 790, Microcomputer Technology
 ET 791, Electrical Engineering Technology Project
 CS 410, Introduction to Scientific Programming
 Five general education requirements

Electrical engineering technology students also must complete a minimum of nine credit hours of courses in communication skills.

EET Computer Technology Option

ET 601, Data Structure & Databases
 ET 625, Technical Communications
 ET 627, Adv. Developmental Theory of E-commerce
 ET 630, Analytical Methods in Technology
 ET 647, Adv. Perspectives on Prog.
 ET 667, Graphics and Animation
 ET 671, Digital Systems
 ET 707, Object Oriented Design
 ET 717, Network Security
 ET 733, Business Organization and Law
 ET 734, Economics of Bus. Activities
 ET 737, Web Server Databases
 ET 747, User Interface Design
 ET 777, Adv. Distributed Programming Trends
 ET 787, Artificial Intelligence and Expert Systems
 ET 790, Microcomputer Systems
 ET 791, Electrical Engineering Technology Project Technical Electives

Mechanical Engineering Technology**Educational Objectives**

Program educational objectives are the skills and abilities graduates are expected to demonstrate during the first few years of employment. MET program educational objectives include:

- achieving employment in a MET-related position with appropriate title and compensation;
- demonstrating MET-related technical problem-solving skills Functioning effectively in diverse and multidisciplinary teams Communicating effectively with both technical and non-technical audiences;
- adapting to changes in technology through continuous personal and professional development;
- being capable of assuming increasing professional responsibility;
- conducting all professional activities with integrity and demonstrating a sense of social and environmental responsibility.

Program Outcomes

Program outcomes are the skills and abilities students are expected to demonstrate at graduation. Program outcomes for the MET program include:

- using principles and tools of science, mathematics, engineering, and technology to design, implement, and evaluate solutions to complex technical problems;
- developing mechanical systems and using results of analyses to improve designs or methodologies;
- successfully developing a meaningful mechanical-based project that considers ethical, social, economic, and technical constraints;
- communicating effectively both orally and in writing Working effectively in a team environment;
- developing research and problem-solving skills to support lifelong personal and professional development;
- evaluating the broader effects of technology, and identifying connections between technology and economics, politics, culture, ethical responsibility, social structure, the environment, and other areas.

Mechanical Engineering Technology (MET)

ET 625, Technical Communications
 ET 630, Analytic Methods in Technology
 ET 639/640, HVAC 1 & 2
 ET 641, Production Systems
 ET 644, MET Concepts in Design and Analysis,
 or ET 649, Production Tooling and Manufacturing Process
 ET 674, Control Systems and Components
 ET 675, Electrical Technology
 ET 733, Business Organization & Law
 ET 734, Economics of Business Activities
 ET 745, Instrumentation,
 or ET 762, Illumination Engineering
 ET 763, Lighting Design & Application*
 ET 751, Mechanical Engineering Technology Project
 CS 410, Introduction to Scientific Programming
 Five general education requirements

Mechanical engineering technology students must satisfactorily complete CHEM 403, General Chemistry, or offer evidence of equivalent coursework. They also must complete a minimum of nine credit hours of courses in communication skills.

For information about the engineering technology program, contact B.S. engineering technology program chair and program coordinator for the electrical engineering technology (EET) and the EET computer technology option programs David A. Forest, (603) 641-4322, or e-mail to daforest@unh.edu or davidunh@comcast.net.

For information about the mechanical engineering technology program (MET), contact Ralph Draper, B.S., mechanical engineering technology program coordinator, (603) 641-4323, or e-mail rwd@unh.edu.

For admissions information, contact the Undergraduate Office of Admissions at (603) 641-4150, e-mail unhm.admissions@unh.edu.

English

www.unhm.unh.edu/programs/english/index.html

(For course descriptions, see page 274.)

Professor: Deborah Brown, Fred Metting
Associate Professor: Susanne F. Paterson, Susan A. Walsh
Assistant Professor: Gail Fensom
Senior Lecturer: Robert M. Pugh

Through the study of a wide variety of literary materials, English majors deepen their understanding of history, culture, language, and human behavior. They also gain skill in writing, reading, and critical thinking.

The faculty of the UNH Manchester English department specializes in 20th century poetry, poetry writing, women's literary traditions, American literary folklore, New England culture, protest literature, nature writers, American and British fiction, Victorian literature and art, Renaissance drama, interdisciplinary studies, composition, journalism, grammar, and connections between American literature and American music.

Many upper-level courses are conducted as seminars, and individual conferences with professors are common. When possible, field trips to see local performances of drama and poetry readings are planned in conjunction with specific literature courses.

Job prospects for English majors after graduation are varied. English majors find employment in libraries and museums, government agencies, nonprofit organizations, publishing companies, journalism, the media, social work, banking, and many other fields. English graduates also are well prepared to enter graduate study in fields such as law and business.

English Program of Study

For the English major at UNH Manchester, students must complete a minimum of 40 credits in major coursework. Introduction to Critical Analysis (ENGL 419) must be completed with a grade of C or better. Except for ENGL 419, all courses must be completed with a grade of C- or above in order to count toward the English major. Major requirements include ENGL 419, two 500-level

courses, and six courses numbered 600 or above with an overall grade-point average in the major of 2.0 or better. In selecting these courses, students must meet the following distribution requirements:

ENGL 419, Introduction to Critical Analysis, or ENGL 529, Writing About Literature

Literature before 1800: Either two advanced courses (numbered 600 or above), or one advanced course and ENGL 513

Literature after 1800: Either two advanced courses, or one advanced course and one course from the following list: ENGL 514, 515, or 516

Total English courses must include ENGL 419, two 500 level courses, and seven courses numbered 600 and above

A typical first-year program in the first semester consists of Freshman English and three general education requirements or electives. In the second semester, the student typically would take Introduction to Critical Analysis, an introductory literature course, and two general education requirements or electives.

Writing Focus for English Majors

The English department offers a writing focus for English majors interested in creative or other specialized types of writing. Students who might be interested include students with an interest in graduate school in English or writing; students thinking about teaching and teaching writing; students considering law school or journalism training; students looking for careers in marketing and advertising; students wanting to write for corporate in-house publications; students thinking about freelance writing for magazines; and students who enjoy creative writing.

Four of the following nine courses are required. Students should take at least one 500-level course before taking 600- and 700-level courses.

English 501, Creative Non-Fiction
English 502, Technical Writing
English 503, Persuasive Writing
English 623, Essay Writing
English 625/626, Writing Fiction
English 627/628, Writing Poetry
English 710, Teaching Writing

Special Studies in Writing courses will be offered on an occasional basis.

For more information about the English program, contact Fred Metting, program coordinator, (603) 641-4161, e-mail fbm@cisunix.unh.edu. Or contact the UNH Manchester Office of Admissions at (603) 641-4150, e-mail unhm.admissions@unh.edu.

History

www.unhm.unh.edu/programs/history/index.html

(For course descriptions, see page 276.)

Professor: John J. Cerullo, John P. Resch

Associate Professor: Robert L. Macieski

The study of history is an essential element of a liberal arts education. The history major provides both an awareness of the past, and the tools to evaluate and express one's knowledge. Study of the past gives meaning to the present, increasing understanding of the political, social, economic, and cultural forces that influence human life. The study of history may include all of human culture and society and provides tremendous latitude in the subjects that may be studied. The interdisciplinary nature of the field makes it a natural focus for study that may encompass a variety of other fields.

The student who majors in history will have the opportunity to study the breadth of human experience and will acquire the skills in critical reading and writing that form the foundation of the educated life. Students of history learn to analyze conflicting evidence, to find cause and effect, to express themselves effectively, and to ask relevant questions. Through careful observation and evaluation of information they seek explanations for human events.

Students majoring in history must complete 10 four-credit history courses or their equivalent. Students must receive at least a C in HIST 500 and HIST 797, and at least a C- in the other eight courses with an overall average in these courses of 2.0 or better.

History majors are urged to complete HIST 500 in the semester following the major declaration and HIST 797 during the senior year. In addition, a major must take at least eight courses, of which a minimum of three must be at the 600 level or above. Only one 695/696 independent study course may be used to fulfill the 600-level requirement, and no more than two independent studies may be used toward the 10-course requirement. General education courses offered by the department may be counted for major credit or for general education credit, but not for both. No more than two 400-level courses may be counted toward the major. The program must be planned in consultation with an adviser.

The distribution of required courses for the major is as follows:

HIST 500, Introduction to Historical Thinking

HIST 797, Colloquium in History

An approved area of specialization: Four courses numbered 500 and above centered around a nation, region, time period or interdisciplinary theme (two of these courses may be taken in another department with the approval of the student's adviser).

Complementary history courses: at least three history courses from outside the area of specialization.

History elective: may be a history course from the area of specialization or complementary area.

A particular feature of the history program at UNH Manchester is the opportunity to do internships for academic credit. These internships, which enable students to work in museums, historical societies, government agencies, archives, and in other institutional settings, may be arranged with the help of the faculty. A typical first-year program consists of at least two history courses (Introduction to Historical Thinking, Western Civilization, Historical Survey of American Civilization); Freshman English; three to five general education requirements; and electives.

For more information about the history program, contact John Resch, program coordinator, at (603) 641-4134, or e-mail jpr@cisunix.unh.edu. Contact the UNH Manchester Office of Admissions at (603) 641-4150; e-mail unhm.admissions@unh.edu.

Humanities

www.unhm.unh.edu/programs/humanities/index.html

(For course descriptions, see page 277.)

Associate Professor: Terry M. Savage

The UNH Manchester humanities program is an interdisciplinary study of the human condition, past and present. The program is based on careful examination of substantial works from a variety of disciplines and is intended to develop intellectual skills, specialized knowledge, and a breadth of understanding. It provides students with a broad foundation of knowledge and skills in the liberal arts combined with a coordinated, self-designed program of studies in an area of individual student interest.

The program attracts highly motivated students who wish to assume significant responsibility for the content and direction of their studies. Humanities students develop skills of analysis, critical assessment, and effective communication as they study di-

verse works of art, music, literature, history, philosophy, and the sciences. Individually designed programs may cover the full range of student interests: for example, the social and ethical implications of genetic engineering or the examination of a historical period through study of its literature, arts, history, philosophy, and sciences.

Students with specific career interests are encouraged to consult with the college's academic advisers to identify courses appropriate to their needs and interests. Study in areas such as business or computer information systems, for example, often can be combined successfully with the humanities major.

Humanities majors find employment in a wide range of fields or pursue graduate study in fields such as law or education. Skills and knowledge developed through the major are important in virtually all social and career responsibilities, although the humanities major is not preparation for a specific career.

Humanities Program of Study

For the humanities major at UNH Manchester, students must complete 40 credits with a minimum grade of C in each course. The required courses for the humanities major are:

Core Courses (required of all majors)

HIST 500, Introduction to Historical Thinking
or ENGL 419, Introduction to Critical Analysis
HUMA 411, Humanities I
HUMA 412, Humanities II
HUMA 795, Humanities: A Study of Creativity
HUMA 796, Humanities: A Study of Contemporary Issues

Self-Designed Concentration

This is an approved program of study designed by the student in consultation with a faculty adviser. In addition to courses available on the Manchester campus, students may, with prior approval, use courses from area colleges and the University's Durham campus. The concentration is made up of two humanities courses (HUMA prefix) at the 600 or 700 level and three courses from any relevant discipline at any level.

For more information about the humanities major, contact Terry Savage, program coordinator, at (603) 641-4149, e-mail tm-savage@unh.edu; or contact the Office of Admissions at (603) 641-4150.

Politics and Society

www.unhm.unh.edu/course-catalog/bachelor.html

(For course descriptions, see page 278.)

Professor: Thaddeus Piotrowski

Associate Professor: Michael Contarino

Lecturer: Melinda Negron

The B.A. degree in politics and society provides an interdisciplinary approach to the study of politics. The program emphasizes the many ways in which politics shapes, and is shaped by, social, cultural, economic and historical context. The program explores such issues as the historical context of political processes and ideas, how economics and politics impact one another, and how political ideas are framed, legitimized, delegitimized, and manipulated in different social contexts.

Politics and society majors develop critical thinking, communication, and research skills essential for careers in government, politics, journalism, diplomacy, and business. Graduates of the program also will be well prepared for graduate studies in law, political science, sociology, public policy, public administration, business administration, journalism, diplomacy, international relations, and history.

As the University's urban campus, UNH Manchester is well positioned to connect students to local, state, and national politics through coursework, research, internships. Students will have opportunities to work on local and national political campaigns, in local government, and with community organizations for credit as a part of a senior capstone project.

The politics and society program is designed to meet the needs of the region's diverse student population including traditional-age and older students. Students will fulfill the University's general education and major requirements by attending classes either full or part time. Transfer students are encouraged to apply.

Program of Study

Students must complete 128 credits to graduate, including 56 credits in the politics and society major. Students must maintain an overall cumulative grade-point average of 2.0, and a cumulative grade-point average in the major of 2.0. No credit toward the major will be given for any course in which the student receives a grade of less than C-. Students also must fulfill the UNH general education requirements. Up to three courses may be used toward both the politics and society major

and the UNH general education requirements. Transfer students must take at least 28 credits in the major at UNH Manchester.

Program Requirements

The politics and society major includes seven introductory courses in five social science disciplines and history; three interdisciplinary core courses at the 500/600 level; three 500/600/700-level courses in political science and/or sociology; and a 700-level community-based capstone project and interdisciplinary seminar.

Students will complete all lower-level courses before beginning their upper-level program, except by permission of the politics and society program coordinator. Substitutions may be approved with permission of the politics and society program coordinator. Writing-intensive ("W") courses are included at all levels, and will be offered all semesters. Students are encouraged to take a course in statistics and an Inquiry course in a related area.

Required Courses

Seven 400-level courses

All of the following:

POLT 401, Politics and Society
SOC 400, Introductory Sociology
ECN 411, Introduction to Macroeconomics

One of the following:

HIST 410, Historical Survey of American Civilization
HIST 422, World History in the Modern Era
HIST 435/436, Western Civilization

One of the following:

POLT 402, Introduction to American Politics
POLT 403, U.S. and World Affairs
POLT 407, Law and Society

One of the following:

ANTH 411, Global Perspectives on the Human Condition
ANTH 450, Race, Class, and Power

One of the following:

CMN 456, Propaganda and Persuasion
CMN 455, Mass Communication

Seven 500/600/700-level courses

Three of the following interdisciplinary "PS" courses:

PS 501, Social and Political Economic Theory
PS 502, The Sociology and Psychology of Political Opinion, Identity, and Belief
PS 503, Political Theory and Historical and Social Context
PS 651, Selected Topics in Politics and Society

One capstone 700-level PS course

PS 701W, Senior Project and Interdisciplinary Senior Seminar in Politics and Society

For complete program requirements including course descriptions, contact Michael Contarino, program director, (603) 641-4138, e-mail mc1@cisunix.unh.edu.

Psychology

www.unh.unh.edu/programs/psychology/index.html

(For course descriptions, see page 278.)

Associate Professor: Gary S. Goldstein, Alison K. Paglia, John E. Sparrow

Psychology is the scientific study of behavior. The UNH Manchester psychology program provides students with a broad background in psychology, introducing them to both the experimental and clinical perspectives in the field. Students majoring in psychology will explore the fundamental principles involved in how people and animals learn and adapt to their environments.

The psychology program, through its independent study and internship programs, offers opportunities for participation in co-operating New Hampshire mental health, human services, and rehabilitation facilities. Students have worked in hospitals, halfway houses, mental health centers, and other agencies. The department also invites guest speakers to discuss important issues in the field.

Psychology graduates find employment as trained research assistants, mental health aides in a wide variety of human services agencies, social welfare caseworkers, teachers in special education programs, and professionals in government, business, and industry. It is normally expected that students who wish to do professional work in the field of psychology will pursue graduate training at the M.A., M.S., Ph.D., or Psy.D. level.

Psychology Program of Study

Students majoring in psychology must complete 44 credits with a minimum of C- in each course and a 2.0 overall grade-point average in all major requirements. Students with a first major in psychology may not use any psychology courses to fulfill general education requirements with the exception of PSYC 402, which may be used to fill a major requirement or general education Group 2, but not both. If used toward the general education requirement, students must replace PSYC 402 in the major with another four-credit psychology course taken on a graded basis.

Transfer students who elect to major in psychology must complete at least 24 credits in the program at UNH/UNH Manchester to qualify for the degree in psychology. Transfer students must earn a total of 44 approved credits for completion of the psychology major. The department's academic adviser will determine the distribution of these credits. Transfer students should note that courses are allotted only the number of

credits granted by the original institution (after adjustments for semester-hour equivalents). Thus, students transferring from an institution at which courses carry less than four credits each must make up for any credit deficit created by acceptance of transfer credits into the psychology major.

Specific course selections should be discussed with the adviser. Exceptions to the requirements for the major require a petition to the department.

Program Requirements

A. Three core courses (PSYC 401, 402, and 502)

B. Four 500-level breadth courses, as follows:

Group I: Two courses:

PSYC 511, PSYC 512, PSYC 513, PSYC 521, PSYC 531, PSYC 591
(only Behaviorism section)

Group II: Two courses:

PSYC 552, PSYC 553, PSYC 561, PSYC 571, PSYC 581, PSYC 582

C. Four 700-level depth courses, as follows:

Group I: One or more:

PSYCH 702, 705, 710, 712, 713, 720, 722, 731, 733, 735, 737,
741A-D

Group II: One or more:

PSYC 702, 705, 755, 756, 758, 762, 763, 765, 771, 780, 783,
785, 791A-G, 793

The Durham psychology major has slightly different requirements. Students who plan to transfer to Durham should consult with their adviser.

For more information about the psychology program, contact Gary Goldstein, program coordinator, (603) 641-4179, or e-mail gary.goldstein@unh.edu. Or contact the UNH Manchester Office of Admissions at (603) 641-4150, e-mail unh.admissions@unh.edu

Sign Language Interpretation

www.unh.unh.edu/programs/sli/index.html

(For course descriptions, see page 269 and 279.)

Assistant Professor: Jack E. Hoza

Lecturer: Patrick F. McCarthy

The sign language interpretation program at UNH Manchester is a specialized, in-depth program with a national reputation for quality; it has twice been recognized at the national level. In 1999, the program became the first interpreting program in the country to be found in compliance with the National Interpreter Education Standards of the Conference of Interpreter Trainers (CIT). In 2007, the program became the first interpreting program in the nation to be accredited by the Commission on Collegiate Interpreter Education (CCIE). UNH Manchester also

houses one of northern New England's most comprehensive collections of books and media materials on sign language interpretation.

The program is guided by the premise that deaf people, as a linguistic minority, possess their own cultural values, literature, history, traditions, and social conventions. Interpretation requires bilingual and bicultural competence in spoken English and American Sign Language. The sign language interpretation program at UNH Manchester provides students with a strong theoretical foundation as a generalist in ASL/English interpretation and helps prepare students for either state-level interpreter screening or national Registry of Interpreters for the Deaf (RID) interpreter certification, depending on students' skill level and experience.

Graduates may go on to pursue specialty areas in interpretation or related fields of study.

Students who complete the bachelor of science degree in sign language interpretation graduate with a varied and flexible academic base. Students also develop skills such as sustained powers of concentration, versatility in dealing with a variety of people and content areas, the ability to think quickly, and excellent communication skills in the respective languages. Students seeking to become interpreters receive a foundation in American Sign Language, deaf culture, and the interpretation process, and their programs of study often include elective courses in linguistics, sociology, communication, and psychology. Students also gain a thorough grounding in the liberal arts through the University's general education program.

Graduates of the sign language interpretation program may pursue careers in ASL/English interpretation, deaf education, rehabilitation, health care, audiology, social work, counseling, and the media. The program provides students with a varied and flexible academic base. Graduates are prepared for further study in such fields as psychology, communication, linguistics, sociology, and anthropology.

B.S. Sign Language Interpretation Program of Study

Students must complete 64 credits in the major, 40 credits in the University's general education program, and 24 credits in elective courses. Students must complete 64 credits with a grade of C or better. Students who

earn less than a C on a particular course may repeat that course only once. Students must achieve a grade-point average of 2.5 or better in major courses and must pass both ASL 531 and INTR 630 with at least a B- (or successfully demonstrate competence in American Sign Language and consecutive interpretation, respectively). Transfer students must complete a minimum of eight SLI courses at UNH Manchester.

Minor in American Sign Language and Deaf Studies

Students must complete 24 credits to earn a minor. Coursework includes three required courses and three electives in ASL and Deaf Studies.

Required Courses

Language Courses

ASL 435, American Sign Language I*§
 ASL 436, American Sign Language II*§
 ASL 531, American Sign Language III*§
 ASL 532, American Sign Language IV*§
 ASL 621, Advanced ASL Discourse for Interpreters*§
 INTR 539, Comparative Linguistic Analysis for Interpreters*§

Culture Courses

INTR 438, A Sociocultural Perspective on the Deaf Community*§
 INTR 658, Deaf/Hearing Cultural Dynamics*§

Interpreting Courses

INTR 430, Introduction to Interpretation*
 INTR 439, Ethics & Professional Standards for Interpreters*
 INTR 540, Principles and Practice of Translation*
 INTR 630, Principles and Practice of Consecutive Interpretation*
 INTR 636, Principles and Practice of Simultaneous Interpretation*
 INTR 732, Simultaneous Interpretation of Discussions, Speeches, and Reports*
 INTR 734, Field Experience and Seminar I*
 INTR 735, Field Experience and Seminar II*

For more information about the sign language interpretation program, contact Jack Hoza, program director, (603) 641-4143, or e-mail jack.hoza@unh.edu. Or contact the UNH Manchester Office of Admissions at (603) 641-4150, e-mail unhm.admissions@unh.edu.

The Undeclared Option

www.unhm.unh.edu/course-catalog/undecl.html

Students who are admitted to UNH Manchester as bachelor's degree candidates, but who prefer to postpone the declaration of a major or academic specialization, may do so through the undeclared option. Undeclared students may take until the second semester of their sophomore year to select a major.

Applicants for admission to UNH Manchester who are uncertain of their academic interests are encouraged to apply as undeclared. After admission, undeclared students are assisted by academic advisers in purposeful exploration of academic interests and in making appropriate course selections. At UNH Manchester, the undeclared option also can be an effective way to prepare for entry to a variety of academic programs that are available at the Durham campus only. Students must declare a major by the time they attain 57 semester hours.

Undeclared Program Requirements and Program of Study

To graduate from UNH, students must fulfill three types of requirements: University (general education), degree, and major requirements.

While undeclared, students develop their program of study with the guidance of an academic adviser. They work toward completing their general education requirements and explore their interests and possible baccalaureate degree majors. Once a major is declared, the student follows the major program of study to fulfill graduation requirements.

To graduate with a baccalaureate degree, students must complete the following requirements:

- earn at least 128 credits with a minimum cumulative grade-point average of 2.0;
- complete four writing-intensive courses, one of which must be ENGL 401, First-Year Writing;
- satisfy all University general education requirements;
- satisfy University foreign language requirement;
- satisfy all major requirements.

The last 32 hours of credit must be UNH courses completed following admission and matriculation, unless prior permission is granted to transfer part of this work from another institution.

For more information about the undeclared major, call the UNH Manchester Office of Admissions at (603) 641-4150, or e-mail unhm.admissions@unh.edu.

* Required for the B.S.

§ Meets the requirements for the minor.