

# *Some notes about The University*

The University of Rochester, founded in 1850, is one of the most innovative of the leading private research universities in the country—and for undergraduates, it’s a university in perfect balance.

Rochester offers the choices and intellectual excitement of a large research university with the intimacy and opportunities for personal involvement of a small liberal arts college.

More than 95 percent of classes are taught by faculty, not teaching assistants, and it’s not uncommon for senior faculty to teach introductory courses—there’s no separation between researching and teaching, between faculty’s own professional excellence and the excellence they bring to the classroom.

Rochester students live on a lively, self-contained campus, just minutes from metropolitan Rochester—a dynamic city that offers a mix of commerce, culture, and history.

Rochester balances its innovative spirit and responsiveness to individual needs with a commitment to the lasting values of a classic liberal arts education.

The results of the Rochester experience are self-evident in the track record of its alumni—in their careers and in their personal lives. “To put it simply,” says one student, “Rochester opens doors.”

For many undergraduates, the Rochester experience means surrounding a chosen major with clusters of related courses that contribute to a broad liberal education. Others choose double majors or earn certificates in complementary fields. Still others individually design their own departmental programs.

And Rochester students can also benefit from the offerings of other schools and departments. For example, undergraduates can enroll in graduate courses; premed students can enroll in classes at the medical school or at the Eastman School of Music; future engineers can diversify their studies with an advanced course in Chaucer.

Rochester’s opportunities are outlined in the remainder of this book. They include:

**The Rochester Curriculum.** Students have the freedom to define their own academic paths, driven by interest and curiosity. At Rochester, we believe that excellence requires freedom.

**The “Take Five” Scholars Program.** Cited as one of the more innovative liberal arts programs in the country, undergraduates may apply for a fifth year of courses tuition free.

**The Senior Scholars Program.** Selected undergraduates devote at least half of their entire senior year to a creative project, whether in the form of scholarly research, a scientific experiment, or a literary or artistic endeavor.

**The Fifth Year in Teaching Program.** A limited number of undergraduates pursue a fifth year of study tuition free in a master’s program at the Margaret Warner Graduate

***The flexible Rochester Curriculum gives students the freedom to explore the disciplines while pursuing their intellectual passions. With their advisors, students identify the courses and programs that they find exciting. Our courses provide students with a deep understanding of the methods of inquiry: developing questions, proposing tentative answers, assessing and rethinking those answers. Our goal is to enable students to learn the way faculty learn so that they can profit fully from the immense intellectual resources of the University while growing as individuals.***

—Dean of the College Richard Feldman

School of Education and Human Development to prepare as urban school teachers.

**The Guaranteed Rochester Accelerated Degree in Education (GRADE).** A five-year B.A./B.S. + M.S. education program assures students admitted to the University of Rochester who are interested in becoming educators admission to the Margaret Warner Graduate School of Education and Human Development.

**The Kauffman Entrepreneurial Year Program (KEY).** Selected undergraduates devote a tuition-free fifth year to the study or practice of entrepreneurship.

**The Rochester Early Medical Scholars (REMS) Program.** Selected Rochester freshmen receive a conditional acceptance to the University of Rochester’s School of Medicine and Dentistry when they finish the bachelor’s degree. The program frees these students to develop their intellects broadly before they launch into their medical studies.

**The Bachelor of Arts Degree in Engineering.** Recognizing the need for broadly educated decision makers who are well versed in engineering, this program gives a student substantial technological knowledge and competence in at least two areas of engineering while also providing the opportunity for a liberal arts education.

**The CareerSoURce.** A nationwide alliance of more than 1,600 alumni volunteers, parents, and friends advise students on career planning, graduate schools, and internships.

There are approximately 4,600 full-time undergraduates including 480 or so at the Eastman School and 2,400 full-time graduate students at the University. The great majority of classes are small in size, enabling all students to work closely with their teachers. There is a single faculty for all students; some of the most distinguished senior professors teach beginning courses. Reflecting the personal scale of Rochester’s programs, undergraduates are encouraged to work where possible with individual faculty members in the pursuit of original scholarship.

College students must make two major transitions in their first two years. In their first year, they make the important leap from high school to college.

As sophomores, they make the crucial choice of a major. The College’s Dean of Freshmen and Dean of Sophomores take special responsibility for those two important years in students’ careers at the University.

An administrative staff also offers support, starting with an orientation program on campus before the beginning of freshman year. Staff are also available to supply advice on course and major requirements; to help students find paying internships and employment opportunities; and to assist in the development of post-college plans.

*“Meliora, the University’s motto since 1851, is a Latin word that carries the connotation “always better.”*

Students can’t expect to gain a “Rochester education” simply by studying and attending class. Out-of-class activities—whether they’re intramural sports, political clubs, community service, or movies and concerts—are a major part of undergraduate life.

## THE COLLEGE

The great majority of undergraduates enroll in the College, which comprises departments and programs in arts and sciences and the School of Engineering and Applied Sciences. Therefore, transferring between degree programs does not require any formal “readmission” process. The College’s faculty and staff play an active role in academic advising (page 170).

**The College** (pages 14 to 135) is the oldest of the University’s seven academic units. The College’s programs in the **arts and sciences** provide undergraduate and graduate degree programs in the humanities, natural sciences, and social sciences. The College remains the “home” college for most undergraduates during their studies at Rochester.

**The College’s School of Engineering and Applied Sciences** (pages 136 to 157) enrolls first-year students who express an interest in concentrating in one of the engineering disciplines. Students may also move into an engineering program at any time after their first semester provided they have the appropriate science and mathematics background and have, or can schedule, the necessary prerequisites for their intended major. The School’s Bachelor of Science programs in biomedical, chemical, electrical and computer, and mechanical engineering are accredited by the Accreditation Board for Engineering and Technology, the national accrediting agency of the engineering profession. The Institute of Optics, which also offers a Bachelor of Science degree, is an internationally known center for teaching and research. In addition, there are provisions for student-designed programs that can lead to either a Bachelor of Science in interdisciplinary engineering or a Bachelor of Arts in engineering sciences.

## OTHER SCHOOLS OF THE UNIVERSITY

**The Eastman School of Music** (page 158), known throughout the world as a major center for the education of professional musicians as well as for the study and creation of music, offers diverse curricula leading to undergraduate and graduate degrees. Students pursuing a Bachelor of Arts degree with a major in music through the College take some of their coursework at the Eastman School. Other University undergraduates, having met the requirements and with permission, may also take applied music lessons or other music courses at Eastman. Some students apply and are admitted both to the College and the Eastman School, and pursue a dual degree program.

In addition to the programs leading to the M.D., M.S., M.P.H., and Ph.D. degrees, the **School of Medicine and Dentistry** offers unusual opportunities for undergraduates. In the Rochester Early Medical Scholars Program (REMS), exceptionally talented students enter the University with a conditional acceptance to the medical school.

**The School of Nursing** (pages 159 to 162) offers study leading to the Bachelor of Science degree with a major in nursing. Admission to the School of Nursing requires *either* a registered nurse license *or* a prior baccalaureate degree in a non-nursing field. The curriculum is designed to be responsive to adult learners, and this has become the focus of the baccalaureate nursing program. The degree programs offered by the School include a Bachelor of Science, an R.N. to B.S. or R.N. to B.S. to M.S. program for registered nurses, Master of Science nurse practitioner specialties, M.S. in leadership in health care systems, M.S. and Ph.D. dual-degree programs, and the Doctor of Philosophy in Health Practice Research. Post-master’s programs are also available.

**The William E. Simon Graduate School of Business Administration** (pages 163 to 166) offers graduate study in business administration for management careers in the profit and nonprofit sectors. For undergraduates interested in such careers, it also offers a unique opportunity to earn an undergraduate degree and a Master of Business Administration degree (M.B.A.) in five years instead of the usual six. This 3-2 program consists of three years of undergraduate study in another college followed by two years in the Simon

School. The School also offers undergraduate courses in management in the areas of accounting, behavioral science in industry, computers and information systems, finance, general business administration, law, marketing, and operations management. The School cooperates in an undergraduate program leading to a Certificate in Management Studies, offered by the College (see page 80).

**The Margaret Warner Graduate School of Education and Human Development** (pages 167 to 169) provides a broad range of courses of general interest to educators and those interested in educational issues. The Warner School offers master’s and doctoral degree programs in teaching and curriculum, school leadership, higher education, educational policy, counseling, and human development. Undergraduates can take courses in subjects ranging from the history of American education to child development and learning. Teacher certification is offered through an additional year of graduate study and is offered at the early childhood and elementary level as well as in English, mathematics, Latin, French, Spanish, German, biology, chemistry, physics, earth science, and social studies at the secondary level. The Warner School offers the Guaranteed Rochester Accelerated Degree in Education (GRADE) program, which is a five-year B.A./B.S. + M.S. education program for students admitted to the University of Rochester who are interested in becoming educators. GRADE students enter the University of Rochester with an assurance of admission to the Warner School with the Steven Harrison quarter-tuition scholarship for the duration of the program. The Warner School also offers combined undergraduate and graduate programs in counseling and human development, designed for students planning either to become school counselors or mental health counselors, or to continue with graduate study in human development. Students begin the program in their senior year and complete the master’s degree in one or two years of graduate study.

## UNIVERSITY CAMPUSES

The 77-year-old **River Campus** is the University’s main campus and the residential setting for College undergraduates. It is also the location of the Margaret Warner Graduate School of Education and Human Development

and the William E. Simon Graduate School of Business Administration. On the southern edge of the city, the 114-acre campus is tucked in a bend of the Genesee River. Next door are the University Medical Center and one of Rochester's many parks.

**The Medical Center**, adjacent to the River Campus and the site of the School of Medicine and Dentistry and the School of Nursing, has extensive facilities providing an excellent spectrum of patient care and research to support the educational programs. Strong Memorial Hospital (including Golisano Children's Hospital), with a capacity of 750 beds, is an integral part of the University's Medical Center and serves as the principal teaching hospital of the School of Medicine and Dentistry and the School of Nursing. The Medical Center also includes the Eastman Dental Center.

**The Eastman School of Music** is linked to the other campuses by free shuttle buses. Its Sibley Music Library, with resources numbering more than a half-million items, is recognized as one of the foremost music research libraries in the world. Housed since 1989 in the Miller Center, its collection includes autograph scores of masters of the past as well as those of many contemporary composers. Kilbourn Hall (seating capacity 459), Howard Hanson Recital Hall (65), Kilian and Caroline Schmitt Organ Recital Hall (96), and Eastman Theatre (3,094), one of the great theaters of the Western world, comprise the unparalleled performance facilities of the School.

**The University's South Campus**, a quarter-mile south of the Medical Center, is the site of the Laboratory for Laser Energetics and the Center for Optoelectronics and Imaging, which houses the Center for Optics Manufacturing (COM), the Center for Electronic Imaging Systems (CEIS), and the Robert L. Sproull Center for Laser Research. The River Road Complex and Residence are nearby. South Campus is linked to other campuses by a free shuttle bus service.

The University's **Memorial Art Gallery** serves as a public art museum serving west-central New York, with representative collections of world art of nearly all major schools and periods and regularly changing exhibitions.

**C. E. K. Mees Observatory** is located on Gannett Hill in the Bristol Hills south of Rochester.

## LIBRARIES

The University library system (see [www.rochester.edu/libraries](http://www.rochester.edu/libraries)) houses more than three million volumes and has access to about 22,000 periodicals, in print or online. River Campus libraries include Rush Rhees (humanities, social sciences, and business), Carlson Library (sciences and engineering), and the Physics-Optics-Astronomy Library. Beyond River Campus are Edward G. Miner Library (Medical Center), Sibley Music Library (Eastman School of Music), Charlotte Whitney Allen Library (Memorial Art Gallery), and the library at the Laboratory for Laser Energetics.

## SPECIAL ACADEMIC OPPORTUNITIES

Students taking their entire four years as undergraduates in the College receive extraordinarily strong grounding in their chosen fields. But the outstanding graduate and professional schools of the University also offer undergraduates many opportunities to study in advanced and specialized areas. With only a few exceptions, students may count credits for courses in any unit of the University toward the bachelor's degree in the College. Graduate study in one's specialty may be taken for credit toward the bachelor's degree by students whose work in a given area is sufficiently advanced.

### 3-2 PROGRAMS

Five-year combined programs of undergraduate and graduate study (the first three undergraduate, the last two graduate) are available in a number of fields, and permit students to earn a bachelor's degree (awarded after four years) and a professional master's degree. This 3-2 option is available in fields including:

Business administration (page 163)

Computer science (page 53)

Engineering and applied sciences (page 138)

Neuroscience (page 38)

Physics, physics and astronomy, and medical physics (page 110)

Public health (page 125)

## SENIOR SCHOLARS PROGRAM

The Senior Scholars Program permits selected seniors to devote at least half of the entire final year to a single capstone project that can range from a piece of scholarly research to a work of artistic creativity. Building on the student's career through the junior year, Senior Scholar projects are marked by intellectual engagement and coherence, and by educational soundness and continuity. The projects may include coursework in addition to independent study. They carry up to 32 hours of academic credit and are composed and carried out under the supervision of faculty advisors. Projects must be completed by the end of the senior year.

## “TAKE FIVE” SCHOLARS

The Take Five Scholars Program grants undergraduates a ninth semester or fifth year of study, tuition free, to supplement their regular course requirements. Students may apply any time after they have been accepted into a major through the first semester of their senior year. The program is designed for students who can demonstrate that an additional semester or year of study will broaden and enhance their undergraduate education.

## KAUFFMAN ENTREPRENEURIAL YEAR (KEY) PROGRAM

The University of Rochester is one of eight institutions nationwide selected by the Ewing Marion Kauffman Foundation to receive a major, multiyear grant to make entrepreneurship education an integral ingredient of academic activity. This initiative includes the creation of the Kauffman Entrepreneurial Year (KEY) Program that provides students with the opportunity to devote one or two semesters, tuition free, to the study and practice of entrepreneurship.

Qualified students may propose to devote as much as an entire academic year to internships, special projects, business plan development, research into various facets of entrepreneurship, or analysis of how culture and public policy influence entrepreneurial activity. Participation is open to all undergraduates at the University.

***Inscribed with Einstein's equation of mass and energy, the meridian marker in the center of the Eastman Quadrangle records its exact latitude (43° 7' 40") and longitude (77° 37' 49").***

## UNDERGRADUATE RESEARCH

As a major research institution, the University actively encourages primary research by undergraduates in the natural sciences, engineering, the social sciences, and humanities. Opportunities for doing hands-on, professionally supervised research in fields as diverse as organic chemistry and medieval history are open to qualified students, both within regular courses and in special independent projects during the regular school year and in summer. For information on such opportunities, contact the Director of Undergraduate Research, Office of the Dean, the College.

## CERTIFICATE PROGRAMS

Some students combine their departmental majors with an interdisciplinary specialization by following one of the six Certificate Programs—in actuarial studies, Asian studies, international relations, management studies, mathematical modeling in political science and economics, and Polish and Central European studies—offered through the College Center for Academic Support. The Undergraduate Program in Physics and Astronomy offers a Certificate in Biophysics or Medphysics. In addition, a Certificate in Biotechnology is offered through the Undergraduate Program in Biology and Medicine. These certificates, which give formal recognition to the specialized study, are awarded in addition to the bachelor's degree. A student wishing to supplement a major in English with a program in business studies, for example, can earn both a Bachelor of Arts degree with a major in English and a Certificate in Management Studies. A Citation for Achievement in College Leadership is also available to students who have developed their leadership skills in the ways outlined by this program.

## INDEPENDENT STUDY, INTERNSHIPS, AND STUDY ABROAD

**Independent study courses** permit qualified students to pursue areas of reading and research not included or not treated in sufficient depth in regularly offered courses. These special tutorial courses are most often on a one-to-one basis with full-time members of the teaching faculty, with the content and objectives of the course determined by faculty-student collaboration.

**Practica** are credit courses supervised by University faculty members that usually combine field experience with lectures, seminars, and oral and written reports. Each practicum provides direct personal interaction with working professionals in their everyday environment.

**Internships** enable students to work in a variety of off-campus settings. Students in arts and sciences, working under the supervision of a faculty member, can receive credit for their work. Recent internship placements have included the Rochester District Attorney's office, the Rochester *Democrat and Chronicle*, local television stations, environmental field work for the county, the Memorial Art Gallery, George Eastman House, and various financial and investment offices. In social services internships, students have worked in various programs that help emotionally and physically abused children and the developmentally disabled. With special approval, students may engage in full-time internships away from the Rochester area; examples include research projects at the Federal Reserve and at Cohokia Mounds Historical Site. Opportunities for internships in Washington and abroad are described in the sections that follow.

The *Washington Semester Program*, administered by the Department of Political Science, allows selected students to participate directly in the work of legislators at the national level. Students work full time as staff assistants in the offices of United States senators or representatives for a semester and receive full academic credit. Their activities usually include writing speeches, attending hearings, researching law, taking notes at committee meetings, answering mail, and performing other assignments associated with the political process.

**Study Abroad Programs** provide qualified students a summer, a semester, or a year of foreign study experience. Currently, more than 70 different Rochester-sponsored opportunities are available in 26 countries. Students are also welcome to take part in programs offered by other American colleges and universities. Options include "on-location" courses taught by Rochester faculty overseas, university exchanges, internships, and traditional study abroad programs. For more information, contact the Center for Study Abroad in 206 Lattimore Hall.

**On-location programs** are in Israel, Italy, France, Germany, Peru, Russia, Mexico, and England:

*Rochester in Arezzo, Italy*—a fall-semester program in Italian language, literature, art, and culture. Sponsored by the Department of Modern Languages and Cultures. Open to sophomores, juniors, and seniors.

*London Theater Seminar*—a "winter term" course offered in London and Stratford in late December to early January. Sponsored by the Department of English.

*Peru in Depth*—a July course that takes place in four cities, focusing on the history, politics, economics, and religious contexts of Peru. Sponsored by the Department of Religion and Classics.

*Month-long summer language courses* include Italian in Padua; German in Berlin; French in Rennes (Rochester's sister city in Brittany); Russian in St. Petersburg; and Spanish in Oaxaca, Mexico. Sponsored by the Department of Modern Languages and Cultures.

**Exchange programs** permit Rochester students to "trade places" with their counterparts from overseas universities. Current options are in England, Germany, Israel, Japan, and Sweden:

*Sussex University, Sussex, England*—a one-year exchange for sophomore or junior brain and cognitive sciences majors. Located in Brighton, a half-hour south of London.

*University of Cologne, Germany*—sponsored by the German section of the Department of Modern Languages and Cultures. A full-year program for juniors or seniors to take courses and to teach English. This unique fellowship program also provides a stipend.

*ORT-Braude Technical College, Karmiel, Israel*—a spring semester program for sophomore and junior engineering and science majors. Located in the Galilee, in the north of Israel. Sponsored by the School of Engineering and Applied Sciences.

*Meiji-Gakuin University, Tokyo, Japan*—a semester or yearlong program in Japanese language and culture. Sponsored by the Japanese section of the Department of Modern Languages and Cultures.

***In 1900, suffragist Susan B. Anthony pledged her \$2,000 life-insurance policy to assure that women were admitted to the University, then a college for men only.***

*Uppsala University, Uppsala, Sweden*—a semester or year at one of Europe's oldest universities, located 45 minutes from Stockholm. English-language courses in the humanities and social and natural sciences.

In addition to these exchanges, universities in Egypt, Israel, and Poland accept visiting Rochester students in special English-language programs. *The American University in Cairo, Egypt*, offers a semester or a full year at this four-year liberal arts college. AUC is noted for its coursework in Arabic language, Islamic art and architecture, Egyptology, and Middle Eastern history, society, and politics. The overseas program at *Ben-Gurion University of the Negev* in Beersheva, Israel, offers full-year and semester study. The program begins with an intensive Hebrew-language course (Ulpan), and classes taught in English include such unique options as pre-medical studies, environmental and desert studies, health and social welfare, Israeli studies, and internships. At the *Hebrew University of Jerusalem*, students attend courses taught in English in history, politics, religion, Judaic studies, economics, and Middle Eastern languages and literatures. Those proficient in Hebrew may enroll in regularly scheduled Hebrew University courses. In Poland, at the Jagiellonian University in Kraków, courses include Polish language, history, Judaic studies, literature, political science, immigration, economics, and sociology. The Jagiellonian University program is sponsored by the University of Rochester's Skalny Center for Polish and Central European Studies.

**Internship programs** are located in England, Belgium, France, Germany, and Spain and are open to students majoring in a wide variety of fields. Students take coursework paired with a related internship. Semester programs are offered in all locations, and eight-week summer internships (without coursework) are available in all sites except France and Spain.

*London*—The *British Politics Internship program* places students as interns with Members of the House of Commons, pressure groups, party headquarters, or constituency offices, where they carry out research, write speeches and press releases, and experience the workings of the British political system at close hand. Internships in law offices and other private or governmental agencies, and public policy institutes are also offered.

*Business* internships are available in advertising, banking, finance, marketing, and media. *Arts* placements include institutions such as theaters, the Victoria and Albert, the Museum of London, galleries, and performing arts centers. Students participate in daily operations, including mounting exhibitions, helping to plan projects, and carrying out research. The *Health Science/Medical Research Internship* offers students the opportunity to work as interns either in a research laboratory in one of London's teaching hospitals, in a psychiatric treatment program, or in health care administration in a broad range of facilities.

In *Berlin*, politics interns work with Members of the Bundestag and political offices. In *Bonn*, placements are made in business, the arts, museums, and social service agencies. *Brussels* interns work with Members of the European Parliament. Depending on language proficiency, placements are made with MEPs from any of the 12 European Union member nations. Business placements with multinational corporations are also available. In *Madrid*, students are placed with Members of the Cortés or other political offices, businesses, and museums. *Paris* interns can work in politics, the arts, businesses, and theaters.

Rochester belongs to several consortia that provide access to programs through the *Institute for the International Education of Students (IES)*, the *Council on International Educational Exchange (CIEE)*, and *Advanced Studies in England (ASE)*. Through *IES*, the University of Rochester provides semester and academic year programs in Argentina, Australia, Austria, Chile, China, Ecuador, France, Germany, India, Ireland, Italy, Japan, the Netherlands, New Zealand, Spain, and the United Kingdom. *CIEE* semester or year programs are in Chile, China, Czech Republic, France, Ghana, Hungary, Poland, and Russia. Rochester is also a member of the *Advanced Studies in England* consortium, a semester or yearlong program focusing on medieval and Renaissance history and literature in Bath, Oxford, and Stratford.

Study abroad is open to all majors, and new programs are currently under development. The Center for Study Abroad's advising staff works closely with students to enable them to find the program best suited to their academic interests.

## SUMMER STUDY

Summer provides an opportunity for students to study abroad, concentrate on one or two classes, catch up, get ahead, or take a class of interest that normally would not fit into their schedules! Summer classes are offered May–August in 4-, 6-, or 12-week sessions. For more information or a complete listing of summer courses, visit [www.rochester.edu/summer](http://www.rochester.edu/summer) or call 585-275-2344.

## SPECIAL DEGREE PROGRAMS

*The interdepartmental degree programs* (pages 77 and 156) provide students with an unusual opportunity to construct individual programs suited to their special talents and interests. Students are currently pursuing interdepartmental majors in culture and communications, computers in media, American studies, and Latin-American studies, among others. Faculty members related to the College Center for Study Abroad and Interdepartmental Programs assist undergraduates in developing their interdepartmental studies majors in the College's arts and sciences. Students planning an interdepartmental program leading to a Bachelor of Science in engineering and applied science or the Bachelor of Arts in engineering sciences work closely with faculty members on the Interdepartmental Engineering Committee in the School of Engineering and Applied Sciences (page 156).

Two formalized special degree programs are health and society and the brain and cognitive sciences majors (pages 72 and 40). Students pursuing these majors design their own courses of study in consultation with faculty advisors affiliated with the program. Both majors offer students extensive opportunities to do independent work and to explore areas of special interest.

## HONOR SOCIETIES

National academic honorary societies include Phi Beta Kappa, Golden Key, Tau Beta Pi (engineering), National Society of Collegiate Scholars (scholarship, leadership, and service), Beta Gamma Sigma (business, graduate students only), Sigma Theta Tau (nursing), and Alpha Omega Alpha (medicine), Sigma Pi Sigma (physics and astronomy).

# Degrees Offered

Degrees are awarded by the University of Rochester in the following subjects, grouped by college or school of the University:

## THE COLLEGE: ARTS AND SCIENCES

For purposes of the Rochester Curriculum, described on page 14, the distribution area is noted in which each degree program and minor in the College falls. H=Humanities, S=Social Sciences, N=Natural Sciences and Engineering, V=Variable (determined at time of official entrance into the program).

African and African-American Studies (B.A.)-V

American Sign Language (B.A.)-H

Anthropology (B.A.)-S

Art and Art History:

Art History (B.A.)-H

Studio Arts (B.A.)-H

Biological Sciences (B.S.), with specialties in:

Biochemistry-N

Cell and Developmental Biology-N

Ecology and Evolutionary Biology-N

Microbiology-N

Molecular Genetics-N

Neuroscience-N

Biology (B.A., M.S., Ph.D.)-N

Brain and Cognitive Sciences (B.A., B.S., M.A., Ph.D.)-N

Chemistry (B.A., B.S., M.S., Ph.D.)-N

Computer Science (B.A., B.S., M.S., Ph.D.)-N

Earth and Environmental Sciences:

Environmental Science (B.S.)-N

Environmental Studies (B.A.)-N

Geological Sciences (B.A., B.S., M.S., Ph.D.)-N

Geomechanics (B.S.)-N

Economics (B.A., M.A., Ph.D.)-S

English (B.A., M.A., Ph.D.)-H

Film and Media Studies (B.A.)-H

Financial Economics (B.A.)-S

Health and Society (B.A.)-S

History (B.A., M.A., Ph.D.)-S

Interdepartmental Studies (B.A., M.A., M.S.)-V

Linguistics (B.A., M.A.)-S

Mathematics (B.A., B.S., M.A., Ph.D.)-N

Mathematics-Applied (B.S., M.S.)-N

Mathematics-Statistics (B.A., M.A.)-N

Modern Languages and Cultures:

Comparative Literature (B.A., M.A.)-H

French (B.A., M.A.)-H

German (B.A., M.A.)-H

Japanese (B.A.)-H

Russian (B.A.)-H

Spanish (B.A., M.A.)-H

Music (B.A.)-H

Philosophy (B.A., M.A., Ph.D.)-H

Physics (B.A., B.S., M.A., M.S., Ph.D.)-N

Physics and Astronomy (B.A., B.S., Ph.D.)-N

Political Science (B.A., M.A., Ph.D.)-S

Psychology (B.A., M.A.)-S

Psychology, Clinical (Ph.D.)

Psychology, Developmental (Ph.D.)

Psychology, Social-Personality (Ph.D.)

Religion and Classics:

Classics (B.A.)-H

Religion (B.A.)-H

Russian Studies (B.A.)-V

Statistics (B.A.)-N

Visual and Cultural Studies (M.A., Ph.D.)

Women's Studies (B.A.)-V

*Certificate Programs* (taken in conjunction with a bachelor's degree)

Actuarial Studies

Asian Studies

Biophysics

Biotechnology

International Relations

Management Studies

Mathematical Modeling in Political Science

and Economics

Medphysics

Polish and Central European Studies

Citation for Achievement in College

Leadership

### Minors

African and African-American Studies-V

American Sign Language-H

Anthropology-S

Arabic-H

Art History-H

Astronomy-N

Biology-N

Brain and Cognitive Sciences-N

Chemistry-N

Chinese-H

Classics-H

Clinical Psychology-S

Comparative Literature-H

Computer Science-N

Economics-S

English Literature-H

Environmental Geology-N

Ethics-H

Film and Media Studies-H

French-H

Geological Sciences-N

German-H

Greek-H

Health and Society-S

Health Psychology-S

History-S

History of Philosophy-H

Interdepartmental Studies-V

Italian-H

Japanese-H

Latin-H

Latin American Studies-H

Legal Studies-V

Linguistics-S

Marine Geology and Ecology-N

Mathematics-N

Medical Anthropology-S

Music-H

Organizational Psychology-S

Paleontology and Evolution-N

Philosophy-H

Philosophy of Science-H

Physics-N

Political Science-S

Psychology-S

Psychology as a Natural Science-N

Psychology as a Social Science-S

Religion-H

Research in Visual Science-N

Russian-H

Russian Studies-V

Social and Emotional Development-S

Spanish-H

Statistics-N

Studio Arts-H

Theater-H

Visual Science-N

Women's Studies-V

Writing-H

## THE COLLEGE: SCHOOL OF ENGINEERING AND APPLIED SCIENCES

Biomedical Engineering (B.S., M.S., Ph.D.)-N

Chemical Engineering (B.S., M.S., Ph.D.)-N

Electrical and Computer Engineering (B.S.)-N

Electrical Engineering (M.S., Ph.D.)-N

Engineering and Applied Science (an Interde-

partmental Program) (B.S.)-N

Engineering Science (B.A.)-N

Geomechanics (B.S.)-N

Materials Science (M.S., Ph.D.)

Mechanical Engineering (B.S., M.S., Ph.D.)-N

Optics (B.S., M.S., Ph.D.)-N

### Minors

Bioenvironmental Engineering-N

Biomedical Engineering-N

Chemical Engineering-N

Electrical and Computer Engineering-N

Environmental Engineering-N

Materials Science-N

Mechanical Engineering-N

Optics-N

## EASTMAN SCHOOL OF MUSIC

Applied Music (B.M.)

Composition (B.M., M.A., M.M., D.M.A., Ph.D.)

Conducting (M.M., D.M.A.)

Early Music, Emphasis in Historical Plucked

Instruments (M.M., D.M.A.)

Ethnomusicology (M.A.)

Jazz Studies and Contemporary Media (B.M.,

M.M., D.M.A.)

Musical Arts (B.M.)

*The second Ph.D. the University awarded, in 1927, went to Vincent DuVigneaud, who won the Nobel Prize in Chemistry. Recent Nobelists, both in physics, include Steven Chu '70 in 1997 and Masatoshi Koshiba '55 (Ph.D.) in 2002.*

Music Education (B.M., M.A., M.M., D.M.A., Ph.D.)  
 Music Theory (B.M., M.A., Ph.D.)  
 Musicology (M.A., Ph.D.)  
 Opera (M.M.)  
 Pedagogy of Music Theory (M.A.)  
 Performance and Literature (M.M., D.M.A.)  
 Piano Accompanying and Chamber Music (M.M., D.M.A.)

## SCHOOL OF MEDICINE AND DENTISTRY

Biochemistry (M.S., Ph.D.)  
 Biophysics (M.S., Ph.D.)  
 Clinical Investigation (M.S.)  
 Dental Science (M.S.)  
 Epidemiology (Ph.D.)  
 Genetics (M.S., Ph.D.)  
 Health Services Research and Policy (Ph.D.)  
 Marriage and Family Therapy (M.S.)  
 Medical Statistics (M.S.)  
 Medicine (M.D.)  
 Microbiology-Medical (M.S.)  
 Microbiology and Immunology (Ph.D.)  
 Neurobiology and Anatomy (M.S., Ph.D.)  
 Neuroscience (M.S., Ph.D.)  
 Pathology (M.S., Ph.D.)  
 Pharmacology (M.S., Ph.D.)  
 Physiology (M.S., Ph.D.)  
 Public Health (M.P.H.)  
 Statistics (M.A., Ph.D.)  
 Toxicology (M.S., Ph.D.)

## SCHOOL OF NURSING

Bachelor Programs:  
 Nursing—R.N. to B.S.  
 Accelerated Program for Non Nurses  
 Nursing (B.S.)/M.S. Accelerated Programs for Non Nurses:  
 Nursing/Acute Care Nurse Practitioner  
 Nursing/Adult Nurse Practitioner  
 Nursing/Care of Children & Families—Pediatric Nurse Practitioner  
 Nursing/Family Nurse Practitioner  
 Nursing/Gerontological Nurse Practitioner  
 Nursing/Psychiatric/Mental Health Nurse Practitioner  
 R.N. to B.S. to M.S. Programs:  
 Nursing/Acute Care Nurse Practitioner  
 Nursing/Adult Nurse Practitioner  
 Nursing/Care of Children & Families—Pediatric Nurse Practitioner  
 Nursing/Care of Children & Families—Pediatric Nurse Practitioner/Neonatal Nurse Practitioner  
 Nursing/Family Nurse Practitioner  
 Nursing/Gerontological Nurse Practitioner

Nursing/Psychiatric Mental Health Nurse Practitioner

### M.S. Programs:

Acute Care Nurse Practitioner  
 Adult Nurse Practitioner  
 Care of Children & Families—Pediatric Nurse Practitioner  
 Care of Children & Families—Pediatric Nurse Practitioner /Neonatal Nurse Practitioner  
 Child & Adolescent Psychiatric Mental Health Nurse Practitioner  
 Family Nurse Practitioner  
 Gerontological Nurse Practitioner  
 Psychiatric/Mental Health Nurse Practitioner (Adult/Family)

### M.S./Ph.D. Programs:

Acute Care Nurse Practitioner/Nursing  
 Adult Nurse Practitioner/Nursing  
 Care of Children & Families—Pediatric Nurse Practitioner/Neonatal Nurse Practitioner/  
 Nursing  
 Care of Children & Families—Pediatric Nurse Practitioner/Nursing  
 Family Nurse Practitioner/Nursing  
 Gerontological Nurse Practitioner/Nursing  
 Psychiatric/Mental Health Nurse Practitioner/  
 Nursing

### Ph.D. Program:

Health Practice Research

## WILLIAM E. SIMON GRADUATE SCHOOL OF BUSINESS ADMINISTRATION

Business Administration (M.S., M.B.A., Ph.D., M.B.A./Master of Public Health, M.D./M.B.A., M.S. in Accountancy, and graduate-level certificate programs)

## MARGARET WARNER GRADUATE SCHOOL OF EDUCATION AND HUMAN DEVELOPMENT

Adolescence Education (M.S., M.A.T.)  
 Childhood Education (M.S.)  
 Community Mental Health Counseling (M.S.)  
 Counseling and Human Development (M.S., Ed.D.)  
 Early Childhood Education (M.S.)  
 Education (Ph.D.)  
 Educational Administration (M.S., Ed.D.)  
 Gerontological Mental Health Counseling (M.S.)  
 Human Development (M.S.)  
 Inclusion Adolescence Education (M.S.)  
 Inclusion Childhood Education (M.S.)  
 Inclusion Early Childhood Education (M.S.)  
 Inclusion Middle Childhood Education (M.S.)  
 Mental Health Counseling and Supervision (Ed.D.)

Middle Childhood Education (M.S.)  
 Middle Childhood Education for Adolescence Education Teachers (M.S.)  
 Middle Childhood Education and Adolescence Education (M.S.)  
 Professional Study in Adolescence Education (M.A.T.)  
 Professional Study: Early Childhood/Childhood Education/ESOL (M.S.)  
 Professional Study: Middle Childhood and Adolescence Education (M.S.)  
 School Administrator and Supervisor (M.S., Ed.D.)  
 School Building Leadership—Private Schools (M.S.)  
 School Building Leadership—(M.S., Ed.D.)  
 School District Leadership (M.S., Ed.D.)  
 Teaching and Curriculum (M.S., Ed.D.)  
 Teaching English to Speakers of Other Languages (M.S.)  
 Teaching Literacy (M.S.)  
 Combined Undergraduate and Graduate Programs in Counseling and Human Development (leading to the M.S. with emphasis on human development; School Counseling leading to certification in school counseling; or Mental Health Counseling leading to licensure in mental health counseling)

## UNIVERSITY-WIDE STUDIES

### Combined Bachelor's Programs

B.A. and B.S. in arts and sciences  
 B.A. or B.S. in arts and sciences and B.S. or B.A. in engineering and applied sciences  
 B.A. or B.S. in arts and sciences and B.M. in music  
 B.S. in engineering and applied sciences and B.M. in music

### 3-2 Programs

B.A. and B.S. in an engineering concentration (for transfer students)  
 B.A. or B.S. plus an M.B.A.  
 B.A. or B.S. plus a master's in public health  
 B.S. and M.S. in biological sciences—neuroscience  
 B.S. and M.S. in biomedical engineering  
 B.S. and M.S. in chemical engineering  
 B.S. and M.S. in electrical and computer engineering  
 B.S. and M.S. in mechanical engineering  
 B.S. and M.S. in optics

### Combined Bachelor's and M.D. Degree Program

B.A. or B.S. plus an M.D.

### Concurrent Master's Programs

M.B.A. and M.S. in microbiology

### Inter-College Degree Programs

Genetics (Ph.D.)  
 Neuroscience (M.S., Ph.D.)

# Academic Calendar

## THE COLLEGE AND SCHOOL OF NURSING\*

### 2007 FALL SEMESTER

#### September 4 (Tuesday)

Classes begin at the College and School of Nursing.

#### September 24 (Monday)

Last date for students in the College to add independent study courses.

#### October 1 (Monday)

Last date for students in the College to have courses deleted from current program.

Last date for students in the College to add courses.

Last date for students in the College to declare the S/F option.

#### October 5 (Friday)

Fall term break begins at close of classes for the College and School of Nursing.

#### October 9 (Tuesday)

Classes resume.

#### October 18–19

Registration materials distributed to undergraduates in the College.

#### October 29–November 2

Undergraduate program advising in the College.

#### November 5

Undergraduate registration begins.

#### November 21 (Wednesday)

Thanksgiving recess begins at noon.

#### November 26 (Monday)

Classes resume.

#### December 3 (Monday)

Last date for first-semester freshmen and transfer students in the College to declare the S/F option.

#### December 13 (Thursday)

Classes end. Last date for students in the College to withdraw from courses.

#### December 13 (Thursday)

Reading period begins at close of classes (optional by college or school offering course).

#### December 15 (Saturday)

Reading period ends.

#### December 16–22

Final examinations.

#### December 22 (Saturday)

Winter recess begins at end of day.

### 2008 SPRING SEMESTER

#### January 16 (Wednesday)

Classes begin at the College and School of Nursing.

#### January 21 (Monday)

Martin Luther King Day (observed)  
Classes Canceled

#### February 6 (Wednesday)

Last date for students in the College to add independent study courses.

#### February 13 (Wednesday)

Last date for students in the College to have courses deleted from current program.

Last date for students in the College to add courses.

Last date for students in the College to declare the S/F option.

#### March 8 (Saturday)

Spring recess begins at close of classes.

#### March 17 (Monday)

Classes resume.

#### March 20–21

Registration materials distributed to undergraduates in the College.

#### March 31–April 4

Undergraduate program advising in the College.

#### April 7

Undergraduate registration begins.

#### April 16 (Wednesday)

Last date for first-semester freshmen and transfer students in the College to declare the S/F option.

#### April 30 (Wednesday)

Classes end. Last date for students in the College to withdraw from courses.

#### April 30 (Wednesday)

Reading period begins at close of classes (optional by college or school offering course).

#### May 4 (Sunday)

Reading period ends.

#### May 5–12

Final examinations.

#### May 17–18

Commencement Weekend.

### 2008 SUMMER

#### May 19–August 8

Full summer session

#### May 19–June 13

Session A-4

#### May 19–June 27

Session A-6

#### May 26 (Monday)

Memorial Day observed. No classes.

#### June 16–July 11

Session B-4

#### June 30–August 8

Session B-6

#### July 4 (Friday)

Independence Day. No classes.

#### July 14–August 8

Session C-4

### 2008 FALL SEMESTER

#### September 1 (Monday)

Labor Day. No classes.

#### September 2 (Tuesday)

Classes begin at the College and School of Nursing.

#### September 22 (Monday)

Last date for students in the College to add independent study courses.

#### September 29 (Monday)

Last date for students in the College to have courses deleted from current program.

\*Eastman School of Music calendar differs slightly.