Program Highlights

- Biological and social aspects of growth and development
- Biology and behavior
- Biology and health promotion
- Metabolism, genetics, and health

Biology in the context of life

The Human Biology, Health, and Society major provides a strong background in human biology while preparing students to investigate health issues from a social science perspective. The biological bases of health and illness of individuals are critically examined alongside the social, psychological, economic, cultural, and policy aspects.

Human Biology, Health, and Society is especially appropriate for students desiring careers as health care practitioners—physicians, physician assistants, nurse practitioners, dentists, wellness counselors, physical therapists, and genetic counselors. It can also lead to a career in biomedical research, exercise science, pharmacology, toxicology, health communications, gerontology, or health education. Many graduates go on to advanced study to further their career goals.

Curriculum

All students in this highly flexible major complete college requirements in the natural and social sciences, humanities, writing, and statistics, and demonstrate math competency to the calculus level.

The major requires advanced courses in biology and chemistry, often with two science courses in the same term. A year of introductory chemistry and biology leads to an 8-credit organic chemistry sequence, plus classes in physiology and biochemistry. Students choose two advanced electives in biology such as genetics, cell biology, neurobiology, evolution, microbiology, and nutrition.

Health issues such as infant behavior and development; obesity and regulation of body weight; human sexuality; and health, poverty, and inequality are considered in various courses.

Advanced courses focus on human biology, health, and society, including topics such as nutrition, health, personality development, biomedical materials for human body repair, and ergonomics.

The major requires at least one term each of physics and calculus. Students who wish to complete premed requirements should take two terms of physics and one year of calculus (or one semester of calculus and one semester of statistics).
### Requirements in the Major

- Introductory Chemistry with lab
- Introductory Biology with lab
- Organic Chemistry with lab
- Principles of Biochemistry
- Anatomy and Physiology
- Physics
- Calculus
- Statistics
- Introductory courses in two different areas of social science selected from anthropology, economics, psychology, or sociology
- Nutrition, Health, and Society

**Two additional advanced biology courses (6 credits) selected from any of the following areas:**

- Genetics
- Cell Biology
- Biochemistry
- Physiology
- Evolution
- Microbiology
- Neurobiology
- Nutrition

**Two courses (6 credits) integrating a social science perspective on health chosen from selected classes such as**

- Nutrition Communications and Counseling
- Public Health Nutrition
- Human Development: Adulthood and Aging
- Human Bonding
- Fundamentals of Population Health
- Contemporary Issues in Women’s Health
- The U.S. Health Care System

**Two courses (6 credits) integrating a natural science perspective on health chosen from selected classes such as**

- Maternal and Child Nutrition
- Nutrition and Disease
- The Human Brain and Mind: Biological Issues in Human Development
- Affective and Social Neuroscience
- Psychobiology of Temperament and Personality
- Human Sexuality

**Additional 3 credits chosen from courses listed in the two categories above, and**

- Nutrition and Global Health
- Obesity and Regulation of Body Weight
- Human Growth and Development: Biological and Behavioral Interactions

### Special Opportunities

Beyond formal course work, students may take advantage of other educational opportunities, most of which involve working with Cornell faculty members or other professionals. Field placements, joining a faculty member’s research team, and conducting independent research can add a significant experiential component to the course of study, providing valuable practical knowledge while testing students’ academic or career interests. Students can assist in medical practices, learn procedures for biomedical research, and develop educational programs for school-age children.

Students can apply to study abroad through a Cornell-sponsored program, overseas university, or a program sponsored by another institution. Off-campus study is also offered through one of Cornell’s internship-based programs—Cornell in Washington; the Capital Semester in Albany, New York; or Human Ecology’s Urban Semester in New York City. Premed students planning to attend medical school immediately after graduation are advised to use the fall semester of their junior year for off-campus study.

Cornell’s Sloan Program in Health Administration prepares future leaders in health care administration to manage health care institutions and to analyze how government policies and programs affect the health care sector of the economy and the institutions they manage. Undergraduates are eligible to apply to the Sloan Program in their junior year for a five-year BS/MHA degree.

### Careers

Many Human Biology, Health, and Society students go on to graduate or professional school in medicine, dentistry, health administration, nutrition, physical therapy, nursing, or other health sciences. The broad perspective of the program prepares them for the complex settings, organizations, and specialties they will encounter in their advanced study.

In recent years, graduates have been offered admission to numerous medical schools, including Cornell, Yale, Baylor, Vanderbilt, Mount Sinai, and Albert Einstein, as well as Harvard and Columbia dental schools.

Students who seek employment immediately after graduation can apply their strong background in the biological and the social aspects of health to positions in research, communications, education, and business.

### Selected Graduates

AIDS cellular immunology research on South African strains Harvard Medical School and Massachusetts General Hospital, Boston, Massachusetts

- Doctor Memorial Sloan Kettering Cancer Center, New York, New York
- Equity research analyst Suffolk Capital Management, New York, New York
- Family employment advocate Community Action Duluth, Duluth, Minnesota
- Nutritionist Women, Infants, and Children (WIC), Washington, D.C.
- Physical therapist, Stanford Hospital, Stanford, California
- Project manager E-Commerce Group, Capital One, Richmond, Virginia
- Quality assurance associate Pharmaceutical Manufacturing Research Services, Inc., Horsham, Pennsylvania
- Research analyst Health Care Policy Practice, Lewin Group, Falls Church, Virginia
- Research fellowship Bill Emerson National Hunger Fellowship, Congressional Hunger Center, Washington, D.C.
- Research project coordinator Neonatal Sepsis Study, Valley Children’s Hospital, Madera, California
- Senior counsel Office of the Corporation Counsel, Law Department, City of New York, New York

### For More Information

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