**Fields of Study, Subjects and Concentrations—Spring 2020**

**Explanation of typefaces and styles:**
- **boldface, red**: Field
- **all caps**: SUBJECT
- **brackets**: [Degree]
- **bullets**: concentration
- **bold italics, red**: Minor Field
- **all caps, italics**: Minor Subject
- **bullets, italics**: minor concentration

---

**Aerospace Engineering**
AEROSPACE ENGINEERING [M.Eng., Ph.D.]
- aerodynamics
- aerospace systems
- biomedical mechanics
- dynamics and control
- materials and structures
- propulsion
- thermal sciences

---

**African Studies**
AFRICANA STUDIES [Ph.D.]
- African studies
- cultural, literary, and visual analysis
- historical, political, and social analysis

---

**American Indian and Indigenous Studies**
AMERICAN INDIAN AND INDIGENOUS STUDIES
- American Indian and Indigenous Studies

---

**American Studies**
AMERICAN STUDIES
- American studies

---

**Animal Science**
AGRICULTURE AND LIFE SCIENCE (Animal Science) [M.P.S.]
- animal genetics
- animal genomics
- animal nutrition
- animal science
- dairy business management
- dairy management
- physiology of reproduction

---

**ANIMAL SCIENCE**
[M.S., M.S./Ph.D., Ph.D.]
- animal genetics
- animal genomics
- animal nutrition
- animal science
- physiology of reproduction

---

**Anthropology**
ANTHROPOLOGY [M.A., Ph.D.]
- archaeological anthropology
- socio-cultural anthropology

---

**Applied Economics and Management**
APPLIED ECONOMICS AND MANAGEMENT [M.S., M.P.S., Ph.D.]
- applied behavioral economics and individual choice
- environmental, energy, and resource economics
- food and agricultural economics
- international and development economics
- management

---

**Applied Mathematics**
APPLIED MATHEMATICS [Ph.D.]
- applied mathematics

---

**Applied Physics**
APPLIED PHYSICS [Ph.D.]
- applied physics

---

**Architecture**
ADVANCED ARCHITECTURAL DESIGN (Post-Professional) [M.S.]
- advanced architectural design
- theory and criticism of architecture
- urban design

ARCHITECTURAL SCIENCE [M.S.]
- building technology and environmental science
- computer graphics

ARCHITECTURAL SCIENCE – MATTER DESIGN COMPUTATION [M.S.]
- matter design computation

ARCHITECTURE [M.Arch]
- architecture

HISTORY OF ARCHITECTURE AND URBAN DEVELOPMENT [Ph.D.]
- history of architecture
- history of urban development

---

**Art**
CREATIVE VISUAL ARTS [M.F.A.]
- painting
- photography
- printmaking
- sculpture
- studio art

---

**Asian Literature, Religion and Culture**
ASIAN LITERATURE, RELIGION, AND CULTURE [Ph.D.]
- Asian religions
- East Asian literature and culture
- South Asian literature and culture
- Southeast Asian literature and culture
- theory and method

---

**Asian Studies**
ASIAN STUDIES [M.A.]
- East Asian linguistics
- East Asian studies
- South Asian linguistics
- South Asian studies
- Southeast Asian linguistics
- Southeast Asian studies
<table>
<thead>
<tr>
<th>Department</th>
<th>Programs and Specializations</th>
</tr>
</thead>
<tbody>
<tr>
<td>Biomedical and Biological Sciences</td>
<td>BIOMEDICAL SCIENCES [Ph.D.] · immunology and infectious disease · molecular and cellular medicine · population medicine and epidemiology · translational medicine · zoology and wildlife conservation</td>
</tr>
<tr>
<td>Biomedical Engineering</td>
<td>BIOMEDICAL ENGINEERING [M.Eng., Ph.D.] · biomedical engineering</td>
</tr>
<tr>
<td>Biophysics</td>
<td>BIOPHYSICS [Ph.D.] · biophysics</td>
</tr>
<tr>
<td>Chemical Engineering</td>
<td>CHEMICAL ENGINEERING [M.Eng., M.S., Ph.D.] · advanced materials processing · applied math and computational methods · biochemical engineering · chemical reaction engineering · classical and statistical thermodynamics · fluid dynamics, rheology, and bioregulation · heat and mass transfer · kinetics and catalysis · polymers · surface science</td>
</tr>
<tr>
<td>Chemistry and Chemical Biology</td>
<td>CHEMISTRY AND CHEMICAL BIOLOGY [M.S., Ph.D.] · analytical chemistry · bio-organic chemistry · biophysical chemistry · chemical biology · chemical physics · inorganic chemistry · organic chemistry · organometallic chemistry · physical chemistry · polymer chemistry · theoretical chemistry</td>
</tr>
<tr>
<td>Cognitive Science</td>
<td>COGNITIVE SCIENCE · cognitive studies</td>
</tr>
<tr>
<td>Communication</td>
<td>COMMUNICATION [Ph.D.] · communication · human-computer interaction · language and communication · media communication and society · organizational communication · science, environment and health communication · social psychology communication</td>
</tr>
<tr>
<td>Comparative Biomedical Sciences</td>
<td>PUBLIC HEALTH [M.P.H.] · food systems for health · infectious disease epidemiology</td>
</tr>
<tr>
<td>Computational Science and Engineering</td>
<td>COMPUTATIONAL SCIENCE AND ENGINEERING [M.Eng.] · engineering management</td>
</tr>
<tr>
<td>Computational Biology</td>
<td>COMPUTATIONAL BIOLOGY [Ph.D.] · computational science and engineering</td>
</tr>
<tr>
<td>Computer Science</td>
<td>COMPUTER SCIENCE [M.Eng., M.S., Ph.D.] · artificial intelligence · computer science · programming languages and logics · scientific computing and applications · systems · theory of computation</td>
</tr>
<tr>
<td>Development Sociology</td>
<td>DEVELOPMENT SOCIOLOGY [M.S./Ph.D., Ph.D.] · development sociology · methods of social research · population and development · rural and environmental sociology · state, economy, and society</td>
</tr>
<tr>
<td>Ecology and Evolutionary Biology</td>
<td>ECOLOGY [M.S., Ph.D.] · animal ecology · applied ecology · biogeochemistry · community and ecosystem ecology · limnology · oceanography · physiological ecology · plant ecology · population ecology · theoretical ecology · vertebrate zoology</td>
</tr>
<tr>
<td>Economics</td>
<td>ECONOMICS [Ph.D.] · applied economics · basic analytical economics · econometrics and economic statistics · economic development and planning · economic history · economic systems · economic theory · economics of education · health economics · industrial organization and control · international economics · labor economics · monetary and macroeconomics · public finance</td>
</tr>
<tr>
<td>HUMAN ENVIRONMENT RELATIONS</td>
<td>HUMAN ENVIRONMENT RELATIONS [M.S.] · environmental psychology · facilities planning and management · human factors and ergonomics · sustainable design studies</td>
</tr>
<tr>
<td>VETERINARY MEDICAL SCIENCES</td>
<td>VETERINARY MEDICAL SCIENCES [M.P.S.] · veterinary parasitology</td>
</tr>
<tr>
<td>Comparative Literature</td>
<td>COMPARATIVE LITERATURE [Ph.D.] · comparative literature</td>
</tr>
<tr>
<td>Computational Biology</td>
<td>COMPUTATIONAL BIOLOGY [Ph.D.] · computational behavioral biology · computational biology · computational cell biology · computational ecology · computational genetics · computational macromolecular biology · computational organismal biology</td>
</tr>
<tr>
<td>Computer Science</td>
<td>COMPUTER SCIENCE [M.Eng., M.S., Ph.D.] · artificial intelligence · computer science · programming languages and logics · scientific computing and applications · systems · theory of computation</td>
</tr>
<tr>
<td>Demography</td>
<td>DEMOGRAPHY · demography</td>
</tr>
<tr>
<td>Design and Environmental Analysis</td>
<td>DESIGN [M.A.] · design and health · design for interaction · emerging technology for design · sustainable design studies</td>
</tr>
<tr>
<td>HUMAN BEHAVIOR AND DESIGN</td>
<td>HUMAN BEHAVIOR AND DESIGN [Ph.D.] · human behavior and design</td>
</tr>
</tbody>
</table>
Environmental Quality
ENVIRONMENTAL QUALITY
• environmental quality

Entomology
ENTOMOLOGY [M.S., M.S./Ph.D., Ph.D.]
• acarology
• apiculture
• applied entomology
• aquatic entomology
• biological control
• general entomology
• insect behavior
• insect biochemistry
• insect ecology
• insect genetics
• insect morphology
• insect pathology
• insect physiology
• insect systematics
• insect toxicology and insecticide chemistry
• integrated pest management
• medical and veterinary entomology

Epidemiology
EPIDEMIOLOGY
• human and animal epidemiology

Feminist, Gender, and Sexuality Studies
FEMINIST, GENDER, AND SEXUALITY STUDIES
• feminist, gender, and sexuality studies

Fiber Science and Apparel Design
FIBER SCIENCE [M.S., Ph.D.]
• fiber science
• polymer science
• textile science

FILM AND VIDEO STUDIES
• film and video studies

Food Science and Technology
AGRICULTURE AND LIFE SCIENCES [Food Science & Technology] [M.P.S.]
• dairy science
• enology
• food chemistry
• food engineering
• food science [general]
• sensory evaluation

FOOD SCIENCE AND TECHNOLOGY [M.S., Ph.D.]
• dairy science
• enology
• food chemistry
• food engineering
• food science [general]
• international food science
• sensory evaluation

Genetics, Genomics and Development
GENETICS [Ph.D.]
• developmental biology
• genetics
• genomics

Genomics
GENOMICS
• genomics

Geological Sciences
GEOLOGICAL SCIENCES [M.Eng., M.S., Ph.D.]
• economic geology
• engineering geology
• environmental geophysics
• general geology
• geobiology
• geochemistry and isotopic geology
• geohydrology
• geomorphology
• geophysics
• geotectonics
• marine geology
• mineralogy
• ocean science and technology
• paleontology
• petroleum geology
• petrology
• planetary geology
• Precambrian geology
• Quaternary geology
• rock mechanics
• sedimentology
• seismology
• stratigraphy
• structural geology

Germanic Studies
GERMANIC STUDIES [Ph.D.]
• German area studies
• German intellectual history
• Germanic linguistics
• Germanic literature
• Old Norse

Global Development
GLOBAL DEVELOPMENT [M.P.S.]
• global development

Government
GOVERNMENT [Ph.D.]
• American politics
• comparative politics
• international relations
• political methodology
• political thought
• public policy

History
HISTORY [Ph.D.]
• African history
• American history
• American studies
• ancient Greek history
• ancient history
• ancient Roman history
• early modern European history
• English history
• French history
• German history
• history of science
• Korean history
• Latin American history
• medieval Chinese history
• medieval history
• modern Chinese history
• modern European history
• modern Japanese history
• modern Middle Eastern history
• premodern Islamic history
• premodern Japanese history
• Renaissance history
• Russian history
• south Asian history
• Southeast Asian history

History of Art, Archaeology, and Visual Studies
HISTORY OF ART AND ARCHAEOLOGY [Ph.D.]
• 19th century art
• African, African-American, and African diaspora
• American art
• ancient art and archaeology
• Asian American art
• Asian art
• baroque art
• comparative modernities
• contemporary art
• digital art
• East Asian art
• history of photography
• Islamic art
• Latin American art
• medieval art
• modern art
• Native American and Indigenous studies
• Renaissance art
• South Asian art
• Southeast Asian art
• theory and criticism
• visual studies

Horticulture
AGRICULTURE AND LIFE SCIENCES (Horticulture) [M.P.S.]
• breeding of horticultural crops
• controlled environment agriculture
• horticultural crop management systems
• human-plant interactions
• physiology and ecology of horticultural crops
• public garden leadership
• viticulture

HORTICULTURAL BIOLOGY [M.S., Ph.D.]
• breeding of horticultural crops
• horticultural crop management systems
• human-plant interactions
• physiology and ecology of horticultural crops
Hotel Administration
HOSPITALITY MANAGEMENT [M.M.H.]
  • marketing
  • real estate management
HOTEL ADMINISTRATION [M.S., Ph.D.]
  • financial management
  • food and beverage management
  • hospitality management
  • hotel accounting
  • hotel administration
  • human resource management
  • marketing
  • properties asset management
  • real estate management

Human Development
DEVELOPMENTAL PSYCHOLOGY [M.A., Ph.D.]
  • aging and health
  • cognitive development
  • developmental psychopathology
  • ecology of human development
  • law, psychology and human development
  • social and personality development
HUMAN DEVELOPMENT AND FAMILY STUDIES [M.A., Ph.D.]
  • aging and health
  • ecology of human development
  • family studies and the life course

Industrial and Labor Relations
HUMAN RESOURCES (Online) [M.P.S.]
  • human resource management
  • labor relations, economics, and organizational behavior
  • collective representation (M.I.L.R. only)
  • dispute resolution (M.I.L.R. only)
  • human resource studies (M.S./Ph.D. only)
  • human resources and organizations (M.I.L.R. only)
  • international and comparative labor
  • labor economics
  • labor market policy (M.I.L.R. only)
  • labor relations, law, and history (M.S./Ph.D. only)
  • organizational behavior (M.S./Ph.D. only)
  • social statistics

Information Science
INFORMATION SCIENCE [M.P.S., Ph.D.]
  • cognition
  • human computer interaction
  • information science
  • information systems
  • social aspects of information
INFORMATION SYSTEMS [M.S.]
  • connective media
  • health tech
  • urban tech

Landscape Architecture
  • landscape architecture

Latin American Studies
LATIN AMERICAN STUDIES
  • Latin American studies

Law
LAW [J.S.D.]
  • law

Lesbian, Gay, Bisexual and Transgender Studies
LESBIAN, GAY, BISEXUAL AND TRANSGENDER STUDIES
  • lesbian, gay, bisexual and transgender studies

Linguistics
LINGUISTICS [Ph.D.]
  • computational linguistics
  • East Asian linguistics
  • English linguistics
  • general linguistics
  • Germanic linguistics
  • Indo-European linguistics
  • phonetics
  • phonological theory
  • second language acquisition
  • semantics
  • Slavic linguistics
  • Southeast Asian linguistics
  • syntactic theory

Management
MANAGEMENT [M.P.S., Ph.D.]
  • accounting
  • entrepreneurship
  • finance
  • managerial economics
  • marketing
  • organizational behavior
  • production and operations

Materials Science and Engineering
MATERIALS SCIENCE AND ENGINEERING [M.Eng., M.S., Ph.D.]
  • materials engineering
  • materials science

Mathematics
MATHEMATICS [Ph.D.]
  • mathematics

Mechanical Engineering
MECHANICAL ENGINEERING [M.Eng., M.S., Ph.D.]
  • biomedical mechanics
  • dynamics and control
  • energy and sustainability
  • fluid dynamics
  • micro- and nanoscale engineering
  • solid mechanics and materials
  • thermal science

Medical Sciences
MEDICAL SCIENCES
  • medical sciences

Medieval Studies
MEDIEVAL STUDIES [Ph.D.]
  • medieval archaeology
  • medieval art
  • medieval history
  • medieval literature
  • medieval music
  • medieval philology and linguistics
  • medieval philosophy

Microbiology
MICROBIOLOGY [Ph.D.]
  • microbiology

Music
MUSIC [D.M.A.]
  • composition
  • performance practice
  • theory of music

Natural Resources
AGRICULTURE AND LIFE SCIENCES
  • community-based natural resources management
  • conservation biology
  • fisheries and aquatic science
  • forest science
  • human dimensions of natural resources management
  • policy and institutional analysis
  • program development and evaluation
  • quantitative ecology
  • risk analysis and management
  • wildlife science

NATURAL RESOURCES [M.S., M.S./Ph.D., Ph.D.]
  • applied ecology
  • community-based natural resources management
  • conservation biology
  • ecosystem biology and biogeochemistry
  • fishery and aquatic science
  • forest science
  • human dimensions of natural resources management
  • policy and institutional analysis
  • program development and evaluation
  • quantitative ecology
  • risk analysis and management
  • wildlife science

Near Eastern Studies
NEAR EASTERN STUDIES [Ph.D.]
  • near eastern studies

Neurobiology and Behavior
BEHAVIORAL BIOLOGY [Ph.D.]
  • behavioral ecology
  • chemical ecology
  • ethology
  • neuroethology
  • sociobiology
NEUROBIOLOGY [Ph.D.]
  • cellular and molecular neurobiology
  • neuroanatomy
  • neurochemistry
  • neuropharmacology
  • neurophysiology
  • sensory physiology

Nutrition
HUMAN ECOLOGY (Nutrition) [M.P.S.]
  • community nutrition
  • human nutrition
  • international nutrition
  • molecular nutrition
NUTRITION [M.S., Ph.D.]
  • community nutrition
  • human nutrition
  • international nutrition
  • molecular nutrition
Plant Biology
AGRICULTURE AND LIFE SCIENCES
(Plant Breeding) [M.P.S.]
- plant breeding
- plant genetics
PLANT BREEDING
[M.S., M.S./Ph.D., Ph.D.]
- plant breeding
- plant genetics

Plant Pathology and
Plant-Microbe Biology
PLANT PATHOLOGY [M.S., Ph.D.]
- fungal and oomycete biology
- plant pathology
- plant-microbe biology

Policy Analysis
and Management
EXECUTIVE HEALTH
ADMINISTRATION [M.H.A.]
- health administration
HEALTH ADMINISTRATION
[M.H.A., M.H.A./M.B.A. (Dual Degree),
M.H.A./M.P.A. (Dual Degree)]
- health administration
POLICY ANALYSIS AND
MANAGEMENT [Ph.D.]
- public policy

Psychology
PSYCHOLOGY [Ph.D.]
- behavioral and evolutionary neuroscience
- perception, cognition and development
- social and personality psychology

Public Affairs
PUBLIC ADMINISTRATION
[M.H.A./M.P.A. (dual degree), M.P.A.]
- economic and financial policy
- environmental policy
- government, politics, and policy studies
- human rights and social justice
- international development studies
- public and nonprofit management
- science and technology policy
- science, technology and infrastructure policy
- social policy

Real Estate
REAL ESTATE [M.P.S.]
- real estate

Regional Science
REGIONAL SCIENCE [M.A., M.S., Ph.D.]
- environmental studies
- international spatial problems

Risk Analysis, Communication
and Policy
RISK ANALYSIS, COMMUNICATION,
AND POLICY
- risk analysis, communication and policy

Romance Studies
ROMANCE STUDIES [Ph.D.]
- French literature
- French studies
- Hispanic literature
- Hispanic studies
- Italian literature
- Italian studies

Science and Technology Studies
SCIENCE AND TECHNOLOGY
STUDIES [Ph.D.]
- history and philosophy of science and technology
- social studies of science and technology

Sociology
SOCIOLGY [M.A., Ph.D.]
- community & urban sociology
- computational social science
- culture
- economy and society
- gender
- inequality and social stratification
- methodology
- organizations, work and occupations
- policy analysis
- political sociology/social movements
- race, ethnicity and immigration
- science, technology & medicine
- social demography
- social networks
- social psychology
- sociology of education
- sociology of family
- sociology of health and illness

Soil and Crop Sciences
AGRICULTURE AND LIFE SCIENCES
(Soil and Crop Sciences) [M.P.S.]
- agronomy
- environmental information science
- environmental management
- field crop sciences
- geospatial applications
- soil science

Statistics
APPLIED STATISTICS [M.P.S.]
- applied statistics

Systems Engineering
SYSTEMS [M.S., Ph.D.]
- systems engineering

Theoretical and
Applied Mechanics
ENGINEERING MECHANICS [M.Eng.]
- advanced composites and structures

Urban Studies
URBAN STUDIES
- urban studies

Water Resources
WATER RESOURCES
- water resources