This list is a guide for students to use in the selection of their graduate program. A student selects a major subject and an area of concentration from among those listed under the field to which he or she was admitted. Minor subjects and concentrations may be chosen from the same field or other fields; however, fields of Special Committees may place restrictions on the choice of minor subjects. Degrees are listed beside the subjects to which they apply. Below are the explanations of typefaces and asterisks.

**FIELD** (All capitals, bold face)

**Subject** (initial capitals, bold face)

**Concentration** (all lower case, not bold face)

**Minor field, subject or concentration** (italics)

*Concentrations marked with an asterisk are open only to students in other fields*

### FIELDS OF STUDY, SUBJECTS AND CONCENTRATIONS

**SPRING 2017**

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ASTRONOMY AND SPACE SCIENCES
Astronomy [Ph.D.]
- astronomy
- astrophysics
- cosmology
- infrared astronomy
- planetary studies
- radio astronomy
- radiophysics
- space sciences [general]
- theoretical astrophysics

ATMOSPHERIC SCIENCE
Atmospheric Science [M.S., M.S./Ph.D., Ph.D.]
- atmospheric science

BIOCHEMISTRY, MOLECULAR & CELL BIOLOGY
Biochemistry [Ph.D.]
- biochemistry
- biophysics
Molecular and Cell Biology [Ph.D.]
- cell biology
- molecular biology

BIOLOGICAL AND ENVIRONMENTAL ENGINEERING
Biological and Environmental Engineering
- bioenergy and integrated energy systems
- bioenvironmental engineering
- biological engineering
- bioprocess engineering
- ecohydrology
- environmental engineering
- food engineering
- industrial biotechnology
- nanobiotechnology
- sustainable systems
- synthetic biology

Agriculture and Life Sciences [M.P.S.]
- bioenergy and integrated energy systems
- bioenvironmental engineering
- biological engineering
- bioprocess engineering
- ecohydrology
- environmental engineering
- environmental management
- food engineering
- industrial biotechnology
- nanobiotechnology
- sustainable systems
- synthetic biology

BIOMEDICAL ENGINEERING
Biomedical Engineering [M.S., Ph.D., M.Eng.]
- biomedical engineering

BIOPHYSICS
Biophysics [Ph.D.]
- biophysics

CHEMICAL ENGINEERING
Chemical Engineering [M.S., Ph.D., M.Eng.]
- advanced materials processing
- applied math and computational methods
- biochemical engineering
- chemical reaction engineering
- classical and statistical thermodynamics
- fluid dynamics, rheology, and biohydrology
- heat and mass transfer
- kinetics and catalysis
- polymers
- surface science

CHEMISTRY AND CHEMICAL BIOLOGY
Chemistry and Chemical Biology [Ph.D.]
- analytical chemistry
- bio-organic chemistry
- biophysical chemistry
- chemical biology
- chemical physics
- inorganic chemistry
- materials chemistry
- organic chemistry
- organometallic chemistry
- physical chemistry
- polymer chemistry
- theoretical chemistry

CITY AND REGIONAL PLANNING
City and Regional Planning [Ph.D., M.R.P., MRP/MLA dual degree, MRP/MPS (Real Estate) dual degree]
- city and regional planning
- economic development planning:
- communities and regions
- international studies in planning
- land use and environmental planning
Historic Preservation Planning [M.A.]
- historic preservation planning

CIVIL AND ENVIRONMENTAL ENGINEERING
Civil and Environmental Engineering
- environmental and water resources systems
- engineering
- environmental fluid mechanics and hydrology
- environmental processes
- geotechnical engineering
- remote sensing
- structural engineering
- transportation systems engineering
- structural mechanics
Engineering Management [M.Eng.]
- engineering management

CLASSICS
Classics [Ph.D.]
- ancient history
- ancient philosophy
- classical archaeology
- classical literature and philology
- Greek and Latin language and linguistics
- medieval and Renaissance Latin literature
- classical myth
- classical rhetoric
- Indo-European linguistics

COGNITIVE SCIENCE
Cognitive Studies
- cognitive studies

COMMUNICATION
Communication [Ph.D.]
- communication
- human-computer interaction
- language and communication
- media communication and society
- organizational communication
- science, environment and health
- social psychology
- communication

COMPARATIVE BIOMEDICAL SCIENCES
Veterinary Medicine [Ph.D.]
- cellular and molecular medicine
- developmental and reproductive biology
- infectious diseases
- population medicine and epidemiology
- structural and functional biology

Veterinary Medicine [M.P.S.]
- veterinary parasitology

Public Health [M.P.H.]
- Infectious disease epidemiology
- food systems for health

COMPARATIVE LITERATURE
Comparative Literature [Ph.D.]
- comparative literature

COMPUTATIONAL BIOLOGY
Computational Biology [Ph.D.]
- computational behavioral biology
- computational biology
- computational cell biology
- computational ecology
- computational genetics
- computational macromolecular biology
- computational organismal biology

COMPUTATIONAL SCIENCE AND ENGINEERING
- computational science and engineering
- computational science and engineering

COMPUTER SCIENCE
Computer Science [Ph.D., M.S., M.Eng.]
- artificial intelligence
- computer science
- programming languages and logics
- scientific computing and applications systems
- theory of computation

Information Systems [M.S.]
- connective media
- healthier life

CONSERVATION AND SUSTAINABLE DEVELOPMENT
Conservation and Sustainable Development
- conservation and sustainable development
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<td>Geological Sciences [M.S., Ph.D., M.Eng.]</td>
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general geology
gEOBIOLOGY
gEothermochronometry and isotope geology
gEOHYDROLOGY
gEOLOGIC MORPHOLOGY
gEOPHYSICS
gEOCHRONOLOGY
gEOLOGY
marine geology

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

HISTORY
History [Ph.D.]
African history
American history
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

America studies

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
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
Horticultural Biology [M.S., Ph.D.]
human-plant interactions
physiology and ecology of horticultural crops
breeding of horticultural crops
horticultural crop management systems

human-plant interactions
physiology and ecology of horticultural crops
breeding of horticultural crops
horticultural crop management systems

HOTEL ADMINISTRATION
Hospitality Management [M.M.H. M.S., Ph.D.]
financial management
food and beverage management
hospitality management
hotel accounting
human resource management
marketing
properites asset management
real estate management

HUMAN DEVELOPMENT
Developmental Psychology [M.A., Ph.D., Ph.D./JD dual degree]
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

IMMUNOLOGY AND INFECTIOUS DISEASE
Immunology [Ph.D.]
cellular immunology
immunology
immunogenetics
immunopathology
infection and immunity

INDUSTRIAL AND LABOR RELATIONS
Industrial and Labor Relations [M.S., M.S./Ph.D., Ph.D., M.I.L.R., M.P.S.(I.L.R.), M.S./Ph.D., M.I.L.R./MBA dual degree]
collective representation (M.I.L.R. only)
dispute resolution (M.I.L.R. only)
human resources studies (M.S./Ph.D. only)
human resources and organizations (M.I.L.R. only)
international and comparative labor
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)
labor economics
social statistics

Human Resources [M.P.S.]
human resource management
labor relations, economics, and organizational behavior

INFORMATION SCIENCE
Information Science [Ph.D., M.P.S.]
cognition
human computer interaction
information science
information systems
social aspects of information

Information Systems [M.S.]
connective media
healthier life

LANDSCAPE ARCHITECTURE
Landscape Architecture [M.L.A., M.P.S., MLA/MRP dual degree]
landscape architecture

LATIN AMERICAN STUDIES
Latin American Studies
Latin American studies

LATINO STUDIES
Latino Studies
Latino 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.]
general linguistics
Computational linguistics
East Asian linguistics
English linguistics
Germanic linguistics
Indo-European linguistics
phonetics
phonological theory
second language acquisition
semantics
Slavic linguistics
Southeast Asian linguistics
syntactic theory

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

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

MATHEMATICS
Mathematics [Ph.D.]
mathematics

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

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

MOLECULAR AND INTEGRATIVE PHYSIOLOGY
Physiology [Ph.D.]
behavioral physiology
cardiovascular and respiratory physiology
endocrinology
environmental and comparative physiology
gastrointestinal and metabolic physiology
membrane and epithelial physiology
molecular and cellular physiology
neural and sensory physiology
physiological genomics
reproductive physiology

MUSIC
Music [D.M.A.]
composition
performance practice
Musicology [Ph.D.]
musicology
Music Performance
music performance
Musical Composition
musical composition
Theory of Music
theory of music

NATURAL RESOURCES
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

Agriculture and Life Sciences [M.P.S.]
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
neuropsychology
neurophysiology
sensory physiology

NUTRITION
Nutrition [Ph.D.]
animal nutrition
community nutrition
human nutrition
international nutrition
molecular nutrition

Human Ecology [M.P.S.]
animal nutrition
community nutrition
human nutrition
international nutrition
molecular nutrition

OPERATIONS RESEARCH AND INFORMATION ENGINEERING
Operations Research [Ph.D.]
applied probability and statistics
manufacturing systems engineering
mathematical programming

Operations Research and Information Engineering [M.Eng.]
applied operations research
data analytics
financial engineering
information technology
manufacturing and industrial engineering
strategic operations

PEACE STUDIES AND PEACE SCIENCE
Peace Science
peace science
Peace Studies
peace studies

PHARMACOLOGY
Pharmacology [Ph.D.]
pharmacology

PHILOSOPHY
Philosophy [Ph.D., Ph.D./JD dual degree]
philosophy

PHYSICS
Physics [Ph.D.]
experimental physics
physics
theoretical physics
PLANT BIOLOGY
Plant Biology [Ph.D.]
cytology
palaeobotany
plant biochemistry
plant cell biology
plant ecology
plant molecular biology
plant morphology, anatomy, and biomechanics
plant physiology
systematic botany

PLANT BREEDING
Plant Breeding [M.S., M.S./Ph.D., Ph.D.]
plant breeding
plant genetics
Agriculture and Life Sciences [M.P.S.]
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
Agriculture and Life Sciences [M.P.S.]
fungal and oomycete biology
plant pathology
plant-microbe biology

PLANT PROTECTION
Agriculture and Life Sciences [M.P.S.]
plant protection

POLICY ANALYSIS AND MANAGEMENT
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.P.A., M.P.A./M.H.A dual degree]
environmental policy
economic and financial 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./R.E., MPS/MBA dual degree]
real estate

REGIONAL SCIENCE
Regional Science [M.A., M.S., Ph.D.]
environmental studies
international spatial problems
location theory
multiregional economic analysis
peace science
planning methods
urban and regional economics

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
Sociology [M.A., Ph.D.]
economy and society
gender and life course
organizations
political sociology/social movements
racial and ethnic relations
social networks
social psychology
social stratification
methodology
policy analysis

SOIL AND CROP SCIENCES
Soil and Crop Sciences [M.S., Ph.D.]
agronomy
environmental information science
field crop science
soil science
Agriculture and Life Sciences [M.P.S.]
agronomy
environmental information science
environmental management
field crop science
soil science

STATISTICS
Applied Statistics [M.P.S.(A.S.)]
applied statistics
Statistics [Ph.D.]
biometry

SUSTAINABLE ENERGY
Sustainable energy
sustainable energy

SYSTEMS ENGINEERING
Systems Engineering [M.Eng.]
systems engineering
Systems [Ph.D.]
systems engineering

THEATRE ARTS
Theatre Arts [Ph.D.]
drama and the theatre
theatrical history
theatrical theory and aesthetics
theatre practice (acting or directing)

THEORETICAL AND APPLIED MECHANICS
Engineering Mechanics [M.Eng.]
advanced composites and structures
Theoretical and Applied Mechanics [Ph.D.]
dynamics and space mechanics
fluid mechanics
mechanics of materials
solid mechanics

URBAN STUDIES
Urban Studies
urban studies

WATER RESOURCES
Water Resources
water resources

ZOOLOGY AND WILDLIFE CONSERVATION
Zoology [Ph.D.]
animal cytology
comparative and functional anatomy
developmental biology
ecology
histology
wildlife conservation