FIELDS OF STUDY, SUBJECTS AND CONCENTRATIONS
SPRING 2015

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

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

AFRICANA STUDIES
Africana Studies [Ph.D.]
- Cultural, Literary, and Visual Analysis
- Historical, Political, and Social Analysis
- Africana studies

AMERICAN INDIAN STUDIES
American Indian Studies
- American Indian studies

AMERICAN STUDIES
American Studies
- American studies

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

Agriculture and Life Sciences [M.P.S.]
- animal genetics
- animal genomics
- animal nutrition
- animal science
- physiology of reproduction

ARCHITECTURE
Architectural Science [M.S.]
- computer graphics
- building technology and environmental science

Architecture [M.Arch. professional]
- architecture

Design [M.Arch. post-professional]
- architectural design
- urban design
- theory and criticism of 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 STUDIES
Asian Studies [M.A.]
- East Asian studies
- South Asian studies
- Southeast Asian studies
- East Asian linguistics
- South Asian linguistics
- Southeast Asian linguistics

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
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
[M.S., M.S./Ph.D., Ph.D., M.Eng.]
  bioenergy and integrated energy systems
  bioenvironmental engineering
  biological engineering
  bioprocess engineering
ecohdrology
  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
ecohdrology
  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 bio rheology
  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
[M.S., M.S./Ph.D., Ph.D., M.Eng.]
  environmental and water resources systems
  engineering
  environmental fluid mechanics and hydrology
  environmental processes
  geotechnical engineering
  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 my th
  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
  communication
  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

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

DEMOGRAPHY
Demography
demography
DESIGN AND ENVIRONMENTAL ANALYSIS

Design [M.A.]
interior design
sustainable design studies

Human Behavior and Design [Ph.D.]
human behavior and design

Human-Environment Relations [M.S.]
environmental psychology
facilities planning and management
human factors and ergonomics
sustainable design studies

DEVELOPMENT SOCIOLOGY

Development Sociology [M.S./Ph.D., Ph.D.]
population and development
rural and environmental sociology
state, economy, and society
development sociology
methods of social research

ECOLOGY AND EVOLUTIONARY BIOLOGY

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

Evolutionary Biology [M.S., Ph.D.]
ecological genetics
paleobiology
population biology
systematics

ECONOMICS

Economics [Ph.D.]
applied economics
basic analytical economics
econometrics and economic statistics
economics of education
economic development and planning
economic history
economic systems
economic theory
health economics
industrial organization and control
international economics
labor economics
monetary and macro economics
public finance

EDUCATION

Education [M.S.*, Ph.D.]
adult and extension education
learning, teaching, and social policy

Agriculture and Life Sciences [M.P.S.]
adult and extension education
learning, teaching, and social policy

Mathematics 7-12 [M.S.*]
mathematics 7-12

ELECTRICAL AND COMPUTER ENGINEERING

Electrical and Computer Engineering
[Ph.D., M.Eng.]
computer engineering
electrical engineering
electrical systems

electrophysics

ENGLISH LANGUAGE AND LITERATURE

Creative Writing [M.F.A.]
creative writing (M.F.A. only)

English Language and Literature [Ph.D.]
African American literature
American literature after 1865
American literature to 1865
American studies
colonial and postcolonial literatures
cultural studies
dramatic literature
English poetry
lesbian, bisexual, and gay literary studies
literary criticism and theory
Old and Middle English
prose fiction
the English Renaissance to 1660
the nineteenth century
the Restoration and the eighteenth century
the twentieth century
women's literature

ENTOMOLOGY

Entomology [M.S., M.S./Ph.D., Ph.D.]
acarology
apiculture
applied entomology
aquatic entomology
biological control
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
general entomology

ENVIRONMENTAL QUALITY

Environmental Quality
environmental quality

ENVIRONMENTAL TOXICOLOGY

Environmental Toxicology [M.S., Ph.D.]
cellular and molecular toxicology
ecotoxicity and environmental chemistry
nutritional and food toxicology
risk assessment, management, and public policy

EPIDEMIOLOGY

Epidemiology
human and animal epidemiology

FEMINIST, GENDER, & SEXUALITY STUDIES

Feminist, Gender, & Sexuality Studies
feminist, gender, and sexuality studies

FIBER SCIENCE AND APPAREL DESIGN

Apparel Design [M.A., Ph.D.]
apparel design

Fiber Science [M.S., Ph.D.]
fiber science
polymer science
textile science

Human Ecology [M.P.S.]
apparel design
fiber science

FILM AND VIDEO STUDIES

Film and Video Studies
film and video studies

FOOD SCIENCE AND TECHNOLOGY

Food Science and Technology [M.S., Ph.D.]
dairy science
enology
food chemistry
food engineering
food microbiology
food processing waste technology
food science [general]
international food science
sensory evaluation

Agriculture and Life Sciences [M.P.S.]
dairy science
enology
food chemistry
food engineering
food microbiology
food processing waste technology
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.S., Ph.D., M.Eng.]
economic geology
engineering geology
environmental geophysics
general geology
goebiology
geochemistry and isotope geology
geohydrology
geomorphology
geophysics
geotectonics
mineralogy
ocean science and technology
palaeontology
petroleum geology
petrology
planetary geology
Precambrian geology
Quaternary geology
rock mechanics
sedimentology
seismology
stratigraphy
structural geology
marine geology

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

GLOBAL DEVELOPMENT
Agriculture and Life Sciences [M.P.S.]
international agriculture and rural development
International Development [M.P.S.(I.D.)]
development policy
international nutrition
international planning
international population
science and technology policy

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
American 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
Horticultural Crop and Landscape Management [M.S., Ph.D.]
breeding of horticultural crops
horticultural crop management systems
Agriculture and Life Sciences [M.P.S.]
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
properties 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
immunochemistry
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.), MILR/MBA dual degree]
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 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.]
accounting
finance
marketing
organizational behavior
production and operations
managerial economics

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.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.]
early 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
Nutrition [Ph.D.]
amino acid nutrition
animal nutrition
community nutrition
dietary management
international nutrition
molecular nutrition
Human Ecology [M.P.S.]
amino acid nutrition
animal nutrition
community nutrition
dietary management
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 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.]
biochemistry
decision theory
econometrics
engineering statistics
experimental design
mathematical statistics
probability
sampling
social statistics
statistical computing
stochastic processes

SUSTAINABLE ENERGY
Sustainable energy
sustainable energy

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

THEATRE ARTS
Theatre Arts [Ph.D.]
drama and the theatre
theatre history
theatre 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