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

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

ANTHROPOLOGY
Anthropology [M.A., Ph.D.]
arheological anthropology
biological anthropology
socio-cultural anthropology

APPLIED ECONOMICS AND MANAGEMENT
Applied Economics and Management [M.S., Ph.D.]
food and agricultural economics
environmental, energy and resource economics
international and development economics management

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

APPLIED PHYSICS
Applied Physics [M.S., Ph.D.]
applied physics
Engineering Physics [M.Eng.]
engineering physics

ARCHAEOLOGY
Archaeology [M.A.]
African Archaeology
archaeology of Europe, the Caucasus, & Eurasia
Latin American & Caribbean archaeology
Mediterranean & Near Eastern archaeology
North American archaeology
South & East Asian archaeology
archaeological science
economy & exchange
identity
intercultural engagement
landscape & environment
materiality
museums and heritage
politics & complexity

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

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
- 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 [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
- 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 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
palaeobiology
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
ecotoxicochemistry 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.]
applique design
Fiber Science [M.S., Ph.D.]
fiber science
polymer science
textile science
Human Ecology [M.P.S.]
applique 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

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

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

GOVERNMENT

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

HUMAN DEVELOPMENT

Developmental Psychology [M.A., Ph.D., Ph.D./JD dual degree]
aging and health
cognitive development
developmental psychopathology
ecoy of human development
law, psychology and human development
social and personality development

HUMAN DEVELOPMENT

Developmental Psychology [M.A., Ph.D., Ph.D./JD dual degree]
aging and health
cognitive development
developmental psychopathology
ecoy of human development
law, psychology and human development
social and personality development

IMMUNOLOGY AND INFECTIOUS DISEASE

Immunology [Ph.D.]
cellular immunology
immunochemistry
immunogenetics
immunopathology
infection and immunity

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

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
- cellular and molecular neurobiology
- neuroanatomy
- neurochemistry
- neuropharmacology
- 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
- paleobotany
- plant biochemistry
- plant cell biology
- plant ecology
- plant molecular biology
- plant morphology, anatomy, and biomechanics