



FIELDS OF STUDY, SUBJECTS AND CONCENTRATIONS SUMMER 2017

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 and Indigenous Studies

American Indian and Indigenous Studies

American Indian and Indigenous 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.]

archaeological 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

Agriculture and Life Sciences [M.P.S.]

applied behavioral economics and individual
choice
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

ritual & religion

visual culture

ARCHITECTURE

Architectural Science [M.S.]

computer graphics
*building technology and environmental
science*

Architecture [M.Arch. professional]

architecture

Advanced Architectural Design [M.S.]

advanced 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

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
syntheticbiology

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
syntheticbiology

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 biorheology
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

Public Health [M.P.H.]

Infectious disease epidemiology
food systems for global 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

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

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
ecotoxicology 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
geobiology
geochemistry and isotope geology
geohydrology
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

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
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. 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
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
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
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

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
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
systems engineering
Systems [Ph.D.]
systems engineering
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