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

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

Architecture [M.Arch. professional]
architecture
Design [M.Arch. post-professional]
arhitectural 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
- 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 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
- 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, environmental 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

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  
eneconomics 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  

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

### 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 [M.S.]**  
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 [Ph.D.]**  
human and animal epidemiology  

### FEMINIST, GENDER, & SEXUALITY STUDIES

**Feminist, Gender, & Sexuality Studies [Ph.D.]**  
feminist, gender, and sexuality studies  

### FIBER SCIENCE AND APPAREL DESIGN

**Apparel Design [M.A., Ph.D.]**  
applied arts (M.A.)  

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

**Human Ecology [M.P.S.]**  
applied arts (M.A.)  

**Film and Video Studies [Ph.D.]**  
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
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, ARCHEOLOGY, 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
text 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

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./J.D 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

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.S., Ph.D.]
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 STUDIES [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.]

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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

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
disciplinary
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
neuropharmacology
neuropsychology
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 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
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

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
teaching and learning
theory and 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.]
bioinformatics
decision theory
econometrics
engineering statistics
experimental design
mathematical statistics
probability
sampling
social statistics

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