



Fields of Study, Subjects and Concentrations—Spring 2020

Explanation of typefaces and styles:

boldface, red **Field**
all caps **SUBJECT**
brackets [Degree]
bullets • concentration

bold italics, red **Minor Field**
all caps, italics **MINOR SUBJECT**
bullets, italics • *minor concentration*

Aerospace Engineering

AEROSPACE ENGINEERING
[M.Eng., Ph.D.]

- aerodynamics
- aerospace systems
- biomedical mechanics
- dynamics and control
- materials and structures
- propulsion
- thermal sciences

Africana Studies

AFRICANA STUDIES [Ph.D.]

- Africana studies
- cultural, literary, and visual analysis
- historical, political, and social analysis

American Indian and Indigenous Studies

AMERICAN INDIAN AND
INDIGENOUS STUDIES

- *American Indian and Indigenous Studies*

American Studies

AMERICAN STUDIES

- *American studies*

Animal Science

AGRICULTURE AND LIFE SCIENCE
(Animal Science) [M.P.S.]

- animal genetics
- animal genomics
- animal nutrition
- animal science
- *dairy business management*
- *dairy management*
- physiology of reproduction

ANIMAL SCIENCE

[M.S., M.S./Ph.D., Ph.D.]

- animal genetics
- animal genomics
- animal nutrition
- animal science
- physiology of reproduction

Anthropology

ANTHROPOLOGY [M.A., Ph.D.]

- archaeological anthropology
- socio-cultural anthropology

Applied Economics and Management

APPLIED ECONOMICS AND
MANAGEMENT [M.S., M.P.S., Ph.D.]

- applied behavioral economics and individual choice
- environmental, energy, and resource economics
- food and agricultural economics
- international and development economics
- management

Applied Mathematics

APPLIED MATHEMATICS [Ph.D.]

- applied mathematics

Applied Physics

APPLIED PHYSICS [Ph.D.]

- applied physics

ENGINEERING PHYSICS [M.Eng.]

- engineering physics

Archaeology

ARCHAEOLOGY [M.A.]

- African archaeology
- *archaeological science*
- archaeology of Europe, the Caucasus and Eurasia
- *economy and exchange*
- *identity*
- *intercultural engagement*
- *landscape and environment*
- Latin American and Caribbean archaeology
- materiality

- Mediterranean and Near Eastern archaeology
- *museums and heritage*
- North American archaeology
- *politics and complexity*
- *ritual and religion*
- South and East Asian archaeology
- *visual culture*

Architecture

ADVANCED ARCHITECTURAL DESIGN
(Post-Professional) [M.S.]

- advanced architectural design
- *theory and criticism of architecture*
- *urban design*

ARCHITECTURAL SCIENCE [M.S.]

- *building technology and environmental science*
- computer graphics

ARCHITECTURAL SCIENCE – MATTER
DESIGN COMPUTATION [M.S.]

- matter design computation

ARCHITECTURE [M.Arch]

- 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 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*

Asian Studies

ASIAN STUDIES [M.A.]

- *East Asian linguistics*
- East Asian studies
- *South Asian linguistics*
- South Asian studies
- *Southeast Asian linguistics*
- Southeast Asian studies

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 and Cell Biology

BIOCHEMISTRY [Ph.D.]

- biochemistry

MOLECULAR AND CELL BIOLOGY
[Ph.D.]

- cell biology
- molecular biology

Biological and Environmental Engineering

AGRICULTURE AND LIFE SCIENCES
(Biological and Environmental
Engineering) [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

BIOLOGICAL AND ENVIRONMENTAL
ENGINEERING [M.Eng., M.S., Ph.D.]

- bioenergy and integrated energy systems
- bioenvironmental engineering
- biological engineering
- bioprocess engineering
- ecohydrology
- environmental engineering
- food engineering
- industrial biotechnology
- nanobiotechnology
- sustainable systems
- synthetic biology

Biomedical and Biological Sciences

BIOMEDICAL SCIENCES [Ph.D.]

- immunology and infectious disease
- molecular and cellular medicine
- population medicine and epidemiology
- translational medicine
- zoology and wildlife conservation

Biomedical Engineering

BIOMEDICAL ENGINEERING

[M.Eng., Ph.D.]

- biomedical engineering

Biophysics

BIOPHYSICS [Ph.D.]

- biophysics

Chemical Engineering

CHEMICAL ENGINEERING

[M.Eng., M.S., Ph.D.]

- 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 [M.S., Ph.D.]

- analytical chemistry
- bio-organic chemistry
- biophysical chemistry
- chemical biology
- chemical physics
- inorganic chemistry
- organic chemistry
- organometallic chemistry
- physical chemistry
- polymer chemistry
- theoretical chemistry

City and Regional Planning

CITY AND REGIONAL PLANNING

[M.R.P., M.R.P./M.L.A. (dual degree), Ph.D.]

- 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.Eng., M.S., M.S./Ph.D., Ph.D.]

- environmental and water resources systems engineering
- environmental fluid mechanics and hydrology
- environmental processes
- geotechnical engineering
- remote sensing
- structural engineering
- *structural mechanics*
- transportation systems engineering

ENGINEERING MANAGEMENT

[M.Eng.]

- engineering management

Classics

CLASSICS [Ph.D.]

- ancient history
- ancient philosophy
- classical archaeology and art
- classical literature and philology
- *classical myth*
- *classical rhetoric*
- Greek and Latin language and linguistics
- *Indo-European linguistics*
- interdisciplinary track

Cognitive Science

COGNITIVE SCIENCE

- *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

PUBLIC HEALTH [M.P.H.]

- food systems for health
- infectious disease epidemiology

VETERINARY MEDICAL SCIENCES

[M.P.S.]

- veterinary parasitology

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

[M.Eng., M.S., Ph.D.]

- artificial intelligence
- computer science
- programming languages and logics
- scientific computing and applications
- systems
- theory of computation

INFORMATION SYSTEMS [M.S.]

- connective media
- healthier life

Demography

DEMOGRAPHY

- *demography*

Design and Environmental Analysis

DESIGN [M.A.]

- design and health
- design for interaction
- emerging technology for 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.]

- *development sociology*
- *methods of social research*
- population and development
- rural and environmental sociology
- state, economy, and society

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
- economic development and planning
- economic history
- economic systems
- economic theory
- economics of education
- health economics
- industrial organization and control
- international economics
- labor economics
- monetary and macroeconomics
- public finance

Electrical and Computer Engineering

ELECTRICAL AND COMPUTER ENGINEERING [M.Eng., Ph.D.]

- computer engineering
- electrical engineering
- electrical systems
- electrophysics

English Language and Literature

CREATIVE WRITING [M.F.A.]

- creative writing

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
- *general entomology*
- 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

Environmental Quality

ENVIRONMENTAL QUALITY

- *environmental quality*

Epidemiology

EPIDEMIOLOGY

- *human and animal epidemiology*

Feminist, Gender, and Sexuality Studies

FEMINIST, GENDER, AND SEXUALITY STUDIES

- *feminist, gender, and sexuality studies*

Fiber Science and Apparel Design

FIBER SCIENCE [M.S., Ph.D.]

- fiber science
- polymer science
- textile science

HUMAN ECOLOGY (Apparel Design) [M.P.S.]

- apparel design

Film and Video Studies

FILM AND VIDEO STUDIES

- *film and video studies*

Food Science and Technology

AGRICULTURE AND LIFE SCIENCES (Food Science & Technology) [M.P.S.]

- dairy science
- enology
- food chemistry
- food engineering
- food science [general]
- sensory evaluation

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

Genetics, Genomics and Development

GENETICS [Ph.D.]

- developmental biology
- genetics
- genomics

Genomics

GENOMICS

- *genomics*

Geological Sciences

GEOLOGICAL SCIENCES

[M.Eng., M.S., Ph.D.]

- economic geology
- engineering geology
- environmental geophysics
- general geology
- geobiology
- geochemistry and isotope geology
- geohydrology
- geomorphology
- geophysics
- geotectonics
- *marine geology*
- mineralogy
- ocean science and technology
- paleontology
- petroleum geology
- petrology
- planetary geology
- Precambrian geology
- Quaternary geology
- rock mechanics
- sedimentology
- seismology
- stratigraphy
- structural geology

Germanic Studies

GERMANIC STUDIES [Ph.D.]

- German area studies
- German intellectual history
- Germanic linguistics
- Germanic literature
- *Old Norse*

Global Development

GLOBAL DEVELOPMENT [M.P.S.]

- global development

Government

GOVERNMENT [Ph.D.]

- American politics
- comparative politics
- international relations
- *political methodology*
- political thought
- *public policy*

History

HISTORY [Ph.D.]

- African history
- American history
- *American studies*
- 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

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
- Asian 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

AGRICULTURE AND LIFE SCIENCES (Horticulture) [M.P.S.]

- breeding of horticultural crops
- *controlled environment agriculture*
- horticultural crop management systems
- human-plant interactions
- physiology and ecology of horticultural crops
- *public garden leadership*
- *viticulture*

HORTICULTURAL BIOLOGY

[M.S., Ph.D.]

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

Hotel Administration

HOSPITALITY MANAGEMENT [M.M.H.]

- marketing
- *real estate management*

HOTEL ADMINISTRATION [M.S., Ph.D.]

- financial management
- food and beverage management
- hospitality management
- hotel accounting
- hotel administration
- human resource management
- marketing
- *properties asset management*
- *real estate management*

Human Development

DEVELOPMENTAL PSYCHOLOGY

[M.A., Ph.D.]

- 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

Industrial and Labor Relations

HUMAN RESOURCES (Online) [M.P.S.]

- human resource management
- labor relations, economics, and organizational behavior

INDUSTRIAL AND LABOR RELATIONS [M.I.L.R., M.I.L.R./M.B.A. (dual degree), M.P.S., M.S., M.S./Ph.D., Ph.D.]

- 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 economics*
- 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)
- *social statistics*

Information Science

INFORMATION SCIENCE [M.P.S., Ph.D.]

- cognition
- human computer interaction

- information science
- information systems
- social aspects of information

INFORMATION SYSTEMS [M.S.]

- connective media
- health tech
- urban tech

Landscape Architecture

LANDSCAPE ARCHITECTURE [M.L.A., M.P.S., M.R.P./M.L.A. (dual degree)]

- landscape architecture

Latin American Studies

LATIN AMERICAN STUDIES

- *Latin American studies*

Latina/o Studies

LATINA/O STUDIES

- *Latina/o 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.]

- *computational linguistics*
- *East Asian linguistics*
- *English linguistics*
- general linguistics
- *Germanic linguistics*
- *Indo-European linguistics*
- *phonetics*
- *phonological theory*
- *second language acquisition*
- *semantics*
- *Slavic linguistics*
- *Southeast Asian linguistics*
- *syntactic theory*

Management

MANAGEMENT [M.P.S., Ph.D.]

- accounting
- *entrepreneurship*
- finance
- *managerial economics*
- marketing
- organizational behavior
- production and operations

Materials Science and Engineering

MATERIALS SCIENCE AND ENGINEERING [M.Eng., M.S., Ph.D.]

- materials engineering
- materials science

Mathematics

MATHEMATICS [Ph.D.]

- mathematics

Mechanical Engineering

MECHANICAL ENGINEERING [M.Eng., M.S., Ph.D.]

- biomedical mechanics
- dynamics and control
- energy and sustainability
- fluid dynamics
- micro- and nanoscale engineering
- solid mechanics and materials
- thermal science

Medical Sciences

MEDICAL SCIENCES

- *medical sciences*

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

Music

MUSIC [D.M.A.]

- composition
- performance practice
- *theory of music*

MUSICOLOGY [Ph.D.]

- musicology
- *theory of music*

Natural Resources

AGRICULTURE AND LIFE SCIENCES (Natural Resources) [M.P.S.]

- applied ecology
- community-based natural resources management
- conservation biology
- fishery and aquatic science
- policy and institutional analysis

- program development and evaluation
- quantitative ecology
- risk analysis and management
- *social analysis and environmental decision making*
- *water resource management*
- wildlife science

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

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

HUMAN ECOLOGY (Nutrition) [M.P.S.]

- community nutrition
- human nutrition
- international nutrition
- molecular nutrition

NUTRITION [M.S., Ph.D.]

- 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

Performing and Media Arts

PERFORMING AND MEDIA ARTS [Ph.D.]

- cinema and media studies
- theatre and performance studies
- *theatre practice (acting or directing)*
- theatre theory and aesthetics

Philosophy

PHILOSOPHY [Ph.D.]

- philosophy

Physics

PHYSICS [Ph.D.]

- experimental physics
- physics
- theoretical physics

Plant Biology

AGRICULTURE AND LIFE SCIENCES (Plant Biology) [M.P.S.]

- plant biology

PLANT BIOLOGY [Ph.D.]

- cytology
- paleobotany
- plant biochemistry
- *plant biotechnology*
- plant cell biology
- plant ecology
- plant molecular biology
- plant morphology, anatomy, and biomechanics
- plant physiology
- systematic botany

Plant Breeding

AGRICULTURE AND LIFE SCIENCES (Plant Breeding) [M.P.S.]

- plant breeding
- plant genetics

PLANT BREEDING

[M.S., M.S./Ph.D., Ph.D.]

- 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

Policy Analysis and Management

EXECUTIVE HEALTH

ADMINISTRATION [M.H.A.]

- health administration

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.H.A./M.P.A. (dual degree), M.P.A.]

- economic and financial policy
- environmental 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.]

- 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.]

- community & urban sociology
- computational social science
- *culture*
- economy and society
- gender
- inequality and social stratification
- *methodology*
- organizations, work and occupations
- *policy analysis*
- political sociology/social movements
- race, ethnicity and immigration
- *science, technology & medicine*
- social demography
- social networks
- *social psychology*
- sociology of education
- sociology of family
- sociology of health and illness

Soil and Crop Sciences

AGRICULTURE AND LIFE SCIENCES (Soil and Crop Sciences) [M.P.S.]

- agronomy
- environmental information science
- environmental management
- field crop sciences
- *geospatial applications*
- soil science

SOIL AND CROP SCIENCES [M.S., M.S./Ph.D., Ph.D.]

- agronomy
- environmental information science
- field crop science
- soil science

Statistics

APPLIED STATISTICS [M.P.S.]

- applied statistics

STATISTICS [Ph.D.]

- biometry
- decision theory
- econometrics
- engineering statistics
- experimental design
- mathematical statistics
- probability
- sampling
- social statistics
- statistical computing
- stochastic processes

Stem Cell Biology

STEM CELL BIOLOGY

- *stem cell biology*

Sustainable Energy

SUSTAINABLE ENERGY

- *sustainable energy*

Systems Engineering

SYSTEMS [M.S., Ph.D.]

- systems engineering

SYSTEMS ENGINEERING [M.Eng.]

- *systems engineering*

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*