

Cornell University Graduate School

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Fields of Study, Subjects and Concentrations—Fall 2020

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

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

Aerospace Engineering

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

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

Africana Studies

AFRICANA STUDIES [Ph.D.]

- Africana studies cultural, literary, and visual
- analysishistorical, 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
- · socio-cultural antiropology

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 Information Systems

INFORMATION SYSTEMS [M.S.]

- connective media
- health tech
- urban tech

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

Astronomy and

Space Sciences

astrobiology

astrophysics

astrostatistics

astronomy

cosmology

exoplanets

· data science

instrumentation

planetary sciences

planetary studies

• space sciences [general]

theoretical astrophysics

Atmospheric Science

ATMOSPHERIC SCIENCE

atmospheric science

Biochemistry, Molecular,

MOLECULAR AND CELL BIOLOGY

Biological and Environmental

AGRICULTURE AND LIFE SCIENCES

· bioenergy and integrated energy

bioenvironmental engineering

(Biological and Environmental

biological engineering

bioprocess engineering

environmental engineering

· environmental management

BIOLOGICAL AND ENVIRONMENTAL

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

· bioenvironmental engineering

biological engineering

bioprocess engineering

· environmental engineering

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industrial biotechnology

· bioenergy and integrated energy

industrial biotechnology

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

and Cell Biology

biochemistry

cell biology

Engineering

systems

Engineering) [M.P.S.]

ecohydrology

food engineering

nanobiotechnology

sustainable systems

synthetic biology

systems

ecohydrology

food engineering

nanobiotechnology

sustainable systems

synthetic biology

[Ph.D.]

BIOCHEMISTRY [Ph.D.]

molecular biology

[Ph.D.]

ASTRONOMY AND SPACE SCIENCES

- 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.]

 \cdot matter design computation

ARCHITECTURE [M.Arch]

architecture

HISTORY OF ARCHITECTURE AND URBAN DEVELOPMENT [Ph.D.]

- history of architecture
- history of urban development

Art

painting

photography

printmaking

sculpture

studio art

and Culture

culture

culture

Asian Studies

CREATIVE VISUAL ARTS [M.F.A.]

Asian Literature, Religion,

ASIAN LITERATURE, RELIGION,

· South Asian literature and

• East Asian literature and culture

· Southeast Asian literature and

AND CULTURE [Ph.D.]

theory and method

ASIAN STUDIES [M.A.]

· East Asian studies

• East Asian linguistics

· South Asian linguistics

Southeast Asian linguistics

· Southeast Asian studies

· South Asian studies

Asian religions

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
- designing the city
- 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 mvth
- 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

· environmental psychology and

sustainable design studies

Development Sociology

DEVELOPMENT SOCIOLOGY

development sociology

• methods of social research

rural and environmental

· population and development

state, economy, and society

Ecology and Evolutionary

· community and ecosystem

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

animal ecology

applied ecology

ecology

limnology

oceanography

plant ecology

[M.S., Ph.D.]

physiological ecology

population ecology

· theoretical ecology

vertebrate zoology

EVOLUTIONARY BIOLOGY

ecological genetics

population biology

paleobiology

systematics

Economics

statistics

planning

control

ECONOMICS [Ph.D.]

applied economics

economic history

economic systems

economic theory

health economics

labor economics

public finance

Engineering

• economics of education

industrial organization and

· monetary and macroeconomics

international economics

Electrical and Computer

ELECTRICAL AND COMPUTER

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

• computer engineering

electrical engineering

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· basic analytical economics

• econometrics and economic

· economic development and

biogeochemistry

· facility planning and management

human factors

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

sociology

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

artificial intelligence

· programming languages and

scientific computing and

theory of computation

• computer science

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

logics

systems

applications

Data Science

DATA SCIENCE

data science

Demography

DEMOGRAPHY

Analysis

[Ph.D.]

[M.S.]

DESIGN [M.A.]

design + health

design + health

design for interaction

sustainable design studies

HUMAN BEHAVIOR AND DESIGN

human behavior and design

HUMAN-ENVIRONMENT RELATIONS

emerging technology for design

demography

Design and Environmental

emerging technology for design

• computational science and 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
- \cdot 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
- \cdot 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

- APPAREL DESIGN [M.A., Ph.D.]
- apparel design
- FIBER SCIENCE [M.S., Ph.D.]
- fiber sciencepolymer science
- textile science

HUMAN ECOLOGY [M.P.S.]

- apparel design
- ${\boldsymbol{\cdot}}$ fiber science

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 chemistryfood 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.]
- $\boldsymbol{\cdot} \text{ economic geology}$
- engineering geology
- environmental geophysics

- general geology
- geobiology
- \cdot geochemistry and isotope geology

ocean science and technology

modern Middle Eastern history

premodern Islamic history

Renaissance history

south Asian history

and Visual Studies

HISTORY OF ART AND

ARCHAEOLOGY [Ph.D.]

African diaspora

· Asian American art

contemporary art

American art

Asian art

baroque art

digital art

Islamic art

medieval art

• modern art

Renaissance art

South Asian art

visual studies

(Horticulture) [M.P.S.]

controlled environment

human-plant interactions

· physiology and ecology of

• public garden leadership

HORTICULTURAL BIOLOGY

breeding of horticultural crops

horticultural crop management

HOSPITALITY MANAGEMENT [M.M.H.]

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human-plant interactions

horticultural crops

Hotel Administration

real estate management

physiology and ecology of

horticultural crops

Horticulture

agriculture

systems

viticulture

[M.S., Ph.D.]

systems

marketing

Southeast Asian art

theory and criticism

studies

· East Asian art

• 19th century art

· Southeast Asian history

History of Art, Archaeology,

· African, African-American, and

ancient art and archaeology

comparative modernities

history of photography

· Native American and Indigenous

AGRICULTURE AND LIFE SCIENCES

· breeding of horticultural crops

horticultural crop management

Latin American art

Russian history

premodern Japanese history

- geohydrology
- \cdot geomorphology

marine geology

- geophysics
- geotectonics

mineralogy

paleontology

petrology

• petroleum geology

planetary geology

Precambrian geology

· Quaternary geology

rock mechanics

sedimentology

seismology

stratigraphy

structural geology

Germanic Studies

GERMANIC STUDIES [Ph.D.]

· German intellectual history

German area studies

Germanic linguistics

Germanic literature

Global Development

global development

GOVERNMENT [Ph.D.]

American politics

comparative politics

international relations

political methodology

· political thought

public policy

HISTORY [Ph.D.]

African history

· American history

American studies

ancient history

English history

French history

German history

Korean history

medieval history

history of science

· Latin American history

medieval Chinese history

modern Chinese history

modern European history

modern Japanese history

ancient Greek history

ancient Roman history

· early modern European history

History

GLOBAL DEVELOPMENT [M.P.S.]

Old Norse

Government

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
- \cdot 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.]
- $\boldsymbol{\cdot} \operatorname{cognition}$
- human-computer interaction
- information science
- information systems
- $\boldsymbol{\cdot}$ social aspects of information

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
- \cdot organizational behavior
- \cdot 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

forest science

evaluation

wildlife science

human dimensions of natural

· policy and institutional analysis

risk analysis and management

resources management

• program development and

quantitative ecology

Near Eastern Studies

near eastern studies

behavioral ecology

chemical ecology

neuroethology

NEUROBIOLOGY [Ph.D.]

· cellular and molecular

sociobiology

neurobiology

neuroanatomy

neurochemistry

neurophysiology

Nutrition

HUMAN ECOLOGY

(Nutrition) [M.P.S.]

human nutrition

community nutrition

international nutrition

molecular nutrition

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

human nutrition

community nutrition

international nutrition

Operations Research and

OPERATIONS RESEARCH [Ph.D.]

mathematical programming

OPERATIONS RESEARCH AND

INFORMATION ENGINEERING

financial engineering

strategic operations

information technology

manufacturing and industrial

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· applied operations research

· applied probability and statistics

Information Engineering

manufacturing systems

engineering

data analytics

engineering

[M.Eng.]

molecular nutrition

sensory physiology

neuropharmacology

ethology

NEAR EASTERN STUDIES [Ph.D.]

Neurobiology and Behavior

BEHAVIORAL BIOLOGY [Ph.D.]

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

Medieval Studies

MEDIEVAL STUDIES [Ph.D.]

- medieval archaeology
- medieval art
- medieval history

linguistics

Microbiology

microbiology

MUSIC [D.M.A.]

composition

• theory of music

MUSICOLOGY [Ph.D.]

• theory of music

Natural Resources

applied ecology

evaluation

(Natural Resources) [M.P.S.]

· community-based natural

fishery and aquatic science

• program development and

· policy and institutional analysis

risk analysis and management

• water resource management

· community-based natural

resources management

conservation biology

biogeochemistry

· ecosystem biology and

fishery and aquatic science

social analysis and environmental

resources management

conservation biology

quantitative ecology

decision making

wildlife science

NATURAL RESOURCES

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

applied ecology

AGRICULTURE AND LIFE SCIENCES

musicology

• performance practice

Music

medieval literature
medieval music

medieval philology and

medieval philosophy

MICROBIOLOGY [Ph.D.]

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)
- \cdot 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 biotechnology

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
- plaine genieties

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.]

- \cdot fungal and oomycete biology
- \cdot 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
- $\boldsymbol{\cdot}$ human rights and social justice
- \cdot international development studies
- \cdot public and nonprofit management
- \cdot science and technology policy
- science, technology, and
- infrastructure policy • social policy

social poin

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
- ${\boldsymbol{\cdot}}$ 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 Statistics

APPLIED STATISTICS [M.P.S.]

applied statistics

STATISTICS [Ph.D.]

decision theory

engineering statistics

experimental design

statistical computing

stochastic processes

Stem Cell Biology

STEM CELL BIOLOGY

• stem cell biology

Sustainable Energy

SUSTAINABLE ENERGY

sustainable energy

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

Systems Engineering

systems engineering

systems engineering

Applied Mechanics

Theoretical and

structures

MECHANICS [Ph.D.]

fluid mechanics

solid mechanics

Urban Studies

URBAN STUDIES

urban studies

Water Resources

WATER RESOURCES

• water resources

SYSTEMS ENGINEERING [M.Eng.]

ENGINEERING MECHANICS [M.Eng.]

· dynamics and space mechanics

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· advanced composites and

THEORETICAL AND APPLIED

mechanics of materials

mathematical statistics

econometrics

probability

social statistics

sampling

biometry

 social studies of science and technology

Sociology

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

economy and society

· organizations, work, and

· political sociology/social

- \cdot community & urban sociology
- computational social science

inequality and social stratification

• race, ethnicity, and immigration

・ science, technology, & medicine

· sociology of health and illness

AGRICULTURE AND LIFE SCIENCES

(Plant Pathology and Plant-Microbe

environmental information

· environmental management

AGRICULTURE AND LIFE SCIENCES

(Soil and Crop Sciences) [M.P.S.]

environmental information

environmental management

field crop sciences

field crop sciences

• geospatial applications

SOIL AND CROP SCIENCES

• environmental information

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

field crop science

• culture

gender

methodology

occupations

movements

social demography

social networks

social psychology

Biology) [M.P.S.]

agronomy

science

soil science

agronomy

science

soil science

agronomy

soil science

science

sociology of education

Soil and Crop Sciences

sociology of family

policy analysis