

**Table A-5****SED taxonomy of disciplines including aggregated fields and their constituent fine fields: 2019**

(Field)

Aggregated field name and constituent fields
Life sciences
Agricultural sciences and natural resources
Agricultural sciences
Agricultural animal breeding
Agricultural economics
Agronomy, horticulture science, plant breeding, plant pathology, plant sciences-other <sup>†</sup>
Agricultural and horticultural plant breeding
Agronomy and crop science
Horticulture science
Plant pathology and phytopathology, agricultural
Plant sciences, other
Animal nutrition, poultry science <sup>†</sup>
Animal nutrition
Animal science, poultry or avian <sup>*</sup>
Animal sciences, other
Food science, food technology-other <sup>†</sup>
Food science
Food science and technology, other <sup>*</sup>
Soil chemistry and microbiology, soil sciences-other <sup>†</sup>
Soil chemistry, microbiology <sup>*</sup>
Soil sciences, other
Natural resources and conservation
Environmental science
Fishing and fisheries sciences and management
Forest biology, forest management, forestry sciences-other <sup>†</sup>
Forest management, forest resources management <sup>*</sup>
Forest sciences and biology <sup>*</sup>
Forestry, other
Natural resources policy and environmental economics <sup>†</sup>
Natural resource and environmental policy
Natural resources and environmental economics (agricultural sciences) <sup>*</sup>
Natural resources and conservation, wildlife and range management <sup>†</sup>
Natural resources and conservation
Wildlife, range management <sup>*</sup>
Agricultural sciences, aggregated <sup>†</sup>
Agricultural sciences and natural resources, general <sup>*</sup>
Agricultural sciences and natural resources, other
Biological and biomedical sciences
Anatomy, developmental biology <sup>†</sup>
Anatomy <sup>*</sup>
Developmental biology and embryology
Bacteriology, parasitology, and virology <sup>†</sup>
Bacteriology <sup>*</sup>
Parasitology <sup>*</sup>
Virology
Biochemistry (biological sciences)
Bioinformatics

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(Field)

Aggregated field name and constituent fields
Biomedical sciences
Biometrics and biostatistics
Biophysics (biological sciences)
Botany, plant pathology, plant physiology <sup>†</sup>
Botany and plant biology
Plant pathology and phytopathology (biological sciences)*
Plant physiology*
Cancer biology
Cell, cellular biology, and histology
Computational biology
Ecology
Endocrinology, human / animal pathology <sup>†</sup>
Endocrinology*
Pathology, human and animal*
Entomology
Environmental toxicology
Epidemiology
Evolutionary biology
Genetics and genomics, human and animal
Immunology
Microbiology
Molecular biology
Molecular medicine
Neurosciences, neurobiology
Nutrition sciences
Pharmacology, human and animal
Physiology, human and animal
Plant genetics
Structural biology
Toxicology
Wildlife biology, zoology <sup>†</sup>
Wildlife biology
Zoology*
Biological and biomedical sciences, general
Biotechnology, biology / biomedical sciences-other <sup>†</sup>
Biotechnology*
Biological and biomedical sciences, other
Health sciences
Environmental health
Health and behavior
Health services / systems administration <sup>†</sup>
Health systems administration*
Health services research
Kinesiology, exercise science
Medical physics, radiological science
Nursing science
Pharmaceutical sciences
Public health
Rehabilitation, therapeutic services

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(Field)

Aggregated field name and constituent fields
Speech-language pathology and audiology
Health sciences, aggregated <sup>†</sup>
Gerontology (health sciences) <sup>*</sup>
Oral biology, oral pathology <sup>*</sup>
Veterinary sciences
Health sciences, general
Health sciences, other
Physical sciences and earth sciences
Chemistry
Analytical chemistry
Chemical biology
Inorganic chemistry
Medicinal chemistry
Organic chemistry
Physical chemistry
Polymer chemistry
Theoretical chemistry
Chemistry, general
Chemistry, other
Geosciences, atmospheric, and ocean sciences
Atmospheric science and meteorology
Atmospheric physics, meteorology <sup>†</sup>
Atmospheric physics and dynamics <sup>*</sup>
Meteorology <sup>*</sup>
Atmospheric chemistry, atmospheric sciences-general, atmospheric sciences-other <sup>†</sup>
Atmospheric chemistry and climatology
Atmospheric science and meteorology, general
Atmospheric science and meteorology, other <sup>*</sup>
Geological sciences
Geochemistry, mineralogy <sup>†</sup>
Geochemistry
Mineralogy and petrology <sup>*</sup>
Geology
Geomorphology, geological sciences-general, geological sciences-other <sup>†</sup>
Geomorphology, glacial geology <sup>*</sup>
Geological sciences, general
Geological sciences, other
Geophysics and seismology
Paleontology, stratigraphy <sup>†</sup>
Paleontology <sup>*</sup>
Stratigraphy and sedimentation <sup>*</sup>
Ocean and marine sciences
Marine biology and biological oceanography
Oceanography, chemical and physical
Ocean / marine sciences, aggregated <sup>†</sup>
Hydrology and water resources
Marine sciences
Ocean and marine sciences, other <sup>*</sup>

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(Field)

Aggregated field name and constituent fields
Physics and astronomy
Astronomy and astrophysics
Astronomy
Astrophysics
Astronomy and astrophysics, other
Physics
Acoustics, optics / photonics†
Acoustics*
Optics, photonics
Applied physics
Atomic physics, polymer physics†
Atomic, molecular, chemical physics
Polymer physics*
Biophysics (physics)
Condensed matter, low-temperature physics
Elementary particle physics
Nuclear physics
Plasma, high-temperature physics
Physics, general
Physics, other
Mathematics and computer sciences
Computer and information sciences
Computer science
Information science, systems
Computer and information sciences, general
Computer and information sciences, other
Mathematics and statistics
Algebra
Analysis and functional analysis
Applied mathematics, computing theory†
Applied mathematics
Computing theory and practice*
Computational mathematics
Geometry, geometric analysis
Logic, topology / foundations†
Logic*
Topology and foundations
Number theory
Operations research, mathematics / statistics-general, mathematics / statistics-other†
Operations research (mathematics)*
Mathematics and statistics, general
Mathematics and statistics, other
Statistics (mathematics)
Psychology and social sciences
Psychology
Behavioral analysis
Clinical psychology
Cognitive neuroscience
Cognitive psychology and psycholinguistics

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(Field)

Aggregated field name and constituent fields
Community psychology
Counseling
Developmental and child psychology
Educational psychology (psychology)
Experimental psychology
Family psychology, human development and family studies <sup>†</sup>
Family psychology <sup>*</sup>
Human development and family studies
Health, medical psychology
Industrial and organizational psychology
Marriage and family therapy, counseling
Neuropsychology, physiological psychology
School psychology (psychology)
Social psychology
Psychology, general
Psychology, aggregated <sup>†</sup>
Personality psychology <sup>*</sup>
Psychometrics and quantitative psychology
Psychology, other
Social sciences
Anthropology
Anthropology, cultural
Anthropology, general
Anthropology, physical and biological
Economics
Econometrics, economics <sup>†</sup>
Econometrics <sup>*</sup>
Other economics
Natural resources and environmental economics (social sciences)
Political science and government
Sociology
Other social sciences
American, U.S. studies
Applied linguistics
Archaeology (social sciences)
Area, ethnic, and cultural studies
Criminal justice and corrections
Criminology
Demography, gerontology, statistics, urban affairs, social sciences-general, social sciences-other <sup>†</sup>
Demography and population studies <sup>*</sup>
Gerontology (social sciences) <sup>*</sup>
Statistics (social sciences) <sup>*</sup>
Urban studies, affairs <sup>*</sup>
Social sciences, general
Social sciences, other
Gender and women's studies
Geography
Health policy analysis
History, science and technology and society

**Table A-5****SED taxonomy of disciplines including aggregated fields and their constituent fine fields: 2019**

(Field)

Aggregated field name and constituent fields
International relations, international affairs
Linguistics
Public policy analysis
Urban, city, community and regional planning
Engineering
Aerospace, aeronautical, and astronautical engineering
Bioengineering and biomedical engineering
Chemical engineering
Civil engineering
Electrical, electronics, and communications engineering
Industrial and manufacturing engineering
Materials science engineering
Mechanical engineering
Other engineering
Computer engineering
Environmental, environmental health engineering
Nuclear engineering
Robotics
Structural engineering
Systems engineering
Other engineering, aggregated <sup>†</sup>
Agricultural engineering <sup>*</sup>
Communications engineering <sup>*</sup>
Engineering management, administration <sup>*</sup>
Engineering mechanics <sup>*</sup>
Engineering physics <sup>*</sup>
Engineering science <sup>*</sup>
Geotechnical and geoenvironmental engineering
Metallurgical engineering <sup>*</sup>
Ocean engineering <sup>*</sup>
Operations research (engineering)
Petroleum engineering <sup>*</sup>
Polymer, plastics engineering
Transportation and highway engineering
Engineering, general
Engineering, other
Education
Education administration
Educational administration and supervision
Educational and human resource studies, development
Educational leadership
Urban education and leadership
Education research
Counseling education, counseling and guidance
Curriculum and instruction
Educational assessment, testing, measurement
Educational policy analysis
Educational psychology (education)
Educational statistics, research methods

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(Field)

Aggregated field name and constituent fields
Educational / instructional technology, media design†
Educational and instructional media design*
Educational and instructional technology
Higher education evaluation and research
International education
Learning sciences
School psychology (education)
Social and philosophical foundations of education
Special education
Teacher education†
Adult and continuing teacher education
Elementary teacher education*
Pre-elementary, early childhood teacher education
Secondary teacher education*
Teaching fields
Health education
Literacy and reading education
Mathematics education
Music education
Science education
Teaching fields, aggregated†
Agricultural education
Art education
Bilingual and multilingual education*
English as a second or foreign language*
English education
Family, consumer, and human sciences*
Foreign languages education*
Nursing education
Physical education and coaching*
Social science education*
Teacher education and professional development, other
Other education
Workforce education and development
Education, general
Education, other
Humanities and arts
Foreign languages and literature
French
Germanic language and literature
Spanish language and literature
Other languages, aggregated†
Arabic language and literature*
Chinese language and literature*
Italian*
Japanese language and literature*
Latin American languages and literature
Russian language and literature*

**Table A-5****SED taxonomy of disciplines including aggregated fields and their constituent fine fields: 2019**

(Field)

Aggregated field name and constituent fields
Foreign languages and literatures, other
History
American history, United States and Canada
Asian history
European history
Latin American history
Middle, Near East history
History, general
History, aggregated <sup>†</sup>
African history <sup>*</sup>
History, other
Letters
American literature, United States and Canada
Classics
Comparative literature
English language
English literature, British and Commonwealth
Rhetoric and composition
Speech and rhetorical studies
Letters, aggregated <sup>†</sup>
Creative writing
Letters, general <sup>*</sup>
Letters, other <sup>*</sup>
Other humanities and arts
African American studies, literature, and history
Art history, criticism, and conservation
Dance, drama <sup>†</sup>
Dance <sup>*</sup>
Drama, theater arts
Film, cinema, video studies
Music
Musicology and ethnomusicology
Music performance
Music theory and composition
Philosophy, ethics <sup>†</sup>
Ethics
Philosophy
Religion / religious studies, Jewish / Judaic studies <sup>†</sup>
Jewish, Judaic studies <sup>*</sup>
Religion, religious studies
Theology, religious education
Other humanities, aggregated <sup>†</sup>
Archaeology (humanities) <sup>*</sup>
Bible, biblical studies
Music, other <sup>*</sup>
Humanities, general
Humanities, other
Other <sup>a</sup>



**Table A-5****SED taxonomy of disciplines including aggregated fields and their constituent fine fields: 2019**

(Field)

Aggregated field name and constituent fields
Business management and administration
Accounting
Business administration and management
Finance
Human resources, organizational behavior <sup>†</sup>
Human resources development <sup>*</sup>
Organizational behavior
Management information systems, business statistics
Marketing management and research
Other aggregated business fields <sup>†</sup>
Business, managerial economics <sup>*</sup>
Hospitality, food service, and tourism management <sup>*</sup>
International business, trade, commerce <sup>*</sup>
Operations research (business) <sup>*</sup>
Business management and administration, general
Business management and administration, other
Communication
Communication research
Mass communication, media studies
Communication, general
Communication, aggregated <sup>†</sup>
Communication theory <sup>*</sup>
Film, radio, TV and digital communication <sup>*</sup>
Communication, other
Non-S&E fields nec
Architecture and environmental design
Family, consumer sciences and human sciences
Parks, sports, recreation, leisure and fitness
Public administration
Social work
Fields nec, aggregated <sup>†</sup>
Law <sup>*</sup>
Library science <sup>*</sup>
Other fields nec <sup>*</sup>
Unknown field

<sup>†</sup> = aggregated field in 2019.

<sup>\*</sup> = fine field with fewer than 25 U.S. citizen or permanent resident doctorate recipients in 2019.

nec = not elsewhere classified; S&E = science and engineering.

<sup>a</sup> Includes other non-S&E fields not shown separately.

**Note(s):**

Aggregated fields appear in tables 16 and 22 only.

**Source(s):**

National Center for Science and Engineering Statistics, Survey of Earned Doctorates.