

TABLE A-1

Comparison of science, engineering, and health doctoral fields of study in the SDR and the SED: Field of study aligned to NCSES Taxonomy of Disciplines

(Crosswalk)

| SDR field of study aggregations aligned with ToD | | | | | | | SED field of study information | | | | | |
|--|--------------------------|---|----------------------------|--------------------------------|--|---|------------------------------------|--|------------|--------------------------------------|------|---------|
| SEH group | Broad field (NSDRMEMTOD) | | Minor field (NSDRMENTOD) | | Detailed field (NSDRMEDTOD) ^a | | Fine field (PHDFIELD) ^a | | Start year | End year | | |
| | Code | Label | Code | Label | Code | Label | Code | Label | | | | |
| Science | 1 | Biological, agricultural, and environmental life sciences | 11 | Agricultural and food sciences | 1101 | Agricultural sciences | 098 | Agriculture, general | 1958 | Present | | |
| | | | | | | | 099 | Agricultural science, other | 1958 | Present | | |
| | | | | | | | 005 | Agricultural animal breeding | 1983 | 2013 | | |
| | | | | | | | 007 | Animal husbandry | 1958 | 1982 | | |
| | | | | | | | 010 | Animal nutrition | 1969 | Present | | |
| | | | | | | | 012 | Dairy science | 1988 | 2003 | | |
| | | | | | | | 014 | Animal science, poultry (or avian) | 1988 | Present | | |
| | | | | | | | 019 | Animal science, other | 1983 | Present | | |
| | | | | | | | 040 | Food sciences | 1969 | 1989 | | |
| | | | | | | | 043 | Food science | 1988 | Present | | |
| | | | | | | | 044 | Food science and technology, other | 1988 | Present | | |
| | | | | | | | 020 | Agronomy and crop science | 1958 | Present | | |
| | | | | | | | 025 | Agricultural and horticultural plant breeding/genetics | 1983 | Present | | |
| | | | | | | | 032 | Plant protection/ pest management | 1988 | 1991 | | |
| | | | | | 039 | Plant sciences, other | 1983 | Present | | | | |
| | | | | | 050 | Horticulture science | 1958 | Present | | | | |
| | | | | | 045 | Soil sciences | 1968 | 1988 | | | | |
| | | | | | 046 | Soil chemistry/ microbiology | 1988 | Present | | | | |
| | | | | | 049 | Soil sciences, other | 1988 | Present | | | | |
| | | | | | 1201 | Biochemistry | 100 | Biochemistry | 1958 | Present | | |
| | | | | | 12 | Biochemistry and biophysics | 1202 | Biophysics | 105 | Biophysics | 1958 | Present |
| | | | | | | | 155 | Structural biology | 2010 | Present | | |
| | | | | | 13 | Cell, cellular biology, and molecular biology | 1301 | Cell, cellular biology, and molecular biology | 130 | Anatomy | 1958 | Present |
| | | | | | | | | | 136 | Cell/ cellular biology and histology | 1959 | Present |
| | | | | | | | | | 142 | Developmental biology/ embryology | 1960 | Present |
| | | | | | | | | | 154 | Molecular biology | 1965 | Present |
| | | | | | | | | | 159 | Molecular medicine | 2016 | Present |
| | | | | | 14 | Microbiological sciences and Immunology | 1401 | Immunology | 151 | Immunology | 1972 | Present |
| | | 110 | Bacteriology | 1983 | | | | | Present | | | |
| | | 156 | Microbiology/ bacteriology | 1958 | | | | | 1982 | | | |
| | | 157 | Microbiology | 1983 | | | | | Present | | | |
| | | | | 1402 | Microbiological sciences | 166 | Parasitology | 1973 | Present | | | |

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(Crosswalk)

| SDR field of study aggregations aligned with ToD | | | | | | | SED field of study information | | | | | | | |
|--|--------------------------|-------|--------------------------|------------------------------------|--|--|------------------------------------|---|------------|---------------------------------|------|--|------|---------|
| SEH group | Broad field (NSDRMEMTOD) | | Minor field (NSDRMENTOD) | | Detailed field (NSDRMEDTOD) ^a | | Fine field (PHDFIELD) ^a | | Start year | End year | | | | |
| | Code | Label | Code | Label | Code | Label | Code | Label | | | | | | |
| | | | | | | | 168 | Virology | 2010 | Present | | | | |
| | | | 15 | Natural resources and conservation | 1501 | Fish, fisheries, wildlife and wildlands science and management | 054 | Fish and wildlife science | 1958 | 1982 | | | | |
| | | | | | | | | | | | 055 | Fishing and fisheries sciences/ management | 1983 | Present |
| | | | | | | | | | | | 060 | Wildlife | 1983 | 1988 |
| | | | | | | | | | | | 080 | Wildlife/ range management | 1988 | Present |
| | | | | | | | | | | | 065 | Forestry science | 1958 | 1988 |
| | | | | | | | 1502 | Forestry | 066 | Forest sciences and biology | 1988 | Present | | |
| | | | | | | | | | | | 070 | Forest/ resources management | 1988 | Present |
| | | | | | | | | | | | 072 | Wood science and pulp/ paper technology | 1988 | Present |
| | | | | | | | | | | | 079 | Forestry and related science, other | 1988 | Present |
| | | | | | | | 1503 | Natural resource conservation, research, management, and policy | 074 | Natural resources/ conservation | 1988 | Present | | |
| | | | | | | | | | | | 081 | Environmental science | 1972 | Present |
| | | | | | | | | | | | 685 | Natural resource and environmental policy | 2014 | Present |
| | | | | | 16 | Zoology | 1601 | Zoology, animal biology | 148 | Entomology | 1958 | Present | | |
| | | | | | | | | | | | 188 | Wildlife biology | 2014 | Present |
| | | | | | | | | | | | 189 | Zoology, other | 1958 | Present |
| | | | 17 | Other biological sciences | 1701 | Biomathematics, bioinformatics, and computational biology | 102 | Bioinformatics | 2007 | Present | | | | |
| | | | | | | | | | | | 104 | Computational biology | 2010 | Present |
| | | | | | | | | | | | 133 | Biometrics and biostatistics | 1958 | Present |
| | | | | | | | 1702 | Botany and plant biology | 030 | Plant pathology/ phytopathology | 1958 | Present | | |
| | | | | | | | | | | | 120 | Plant pathology/ phytopathology | 1983 | Present |
| | | | | | | | | | | | 125 | Plant physiology | 1958 | Present |
| | | | | | | | | | | | 129 | Botany/ plant biology | 1958 | Present |
| | | | | | | | 1703 | Epidemiology, ecology, and population biology | 134 | Epidemiology | 2014 | Present | | |
| | | | | | | | | | | | 137 | Evolutionary biology | 2002 | Present |
| | | | | | | | | | | | 139 | Ecology | 1958 | Present |
| | | | | | | | | | | | 140 | Hydrobiology | 1958 | 1979 |
| | | | | | | | | | | | 220 | Epidemiology | 1983 | 2013 |
| | | | | | | | 1704 | Genetics | 115 | Plant genetics | 1983 | Present | | |
| | | | | | | | | | | | 170 | Genetics/ genomics, human and animal | 1983 | Present |
| | | | | | | | | | | | 171 | Genetics | 1958 | 1982 |
| | | | | | 1705 | Neurobiology and neuroscience | 160 | Neurosciences | 1982 | Present | | | | |
| | | | | | | | | | 626 | Cognitive neuroscience | 2016 | Present | | |

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Comparison of science, engineering, and health doctoral fields of study in the SDR and the SED: Field of study aligned to NCSES Taxonomy of Disciplines

(Crosswalk)

| SDR field of study aggregations aligned with ToD | | | | | | | SED field of study information | | | |
|--|---|---|----------------------------|---------------------------------------|---|---|------------------------------------|--|------------|----------|
| SEH group | Broad field (NSDRMEMTOD) | | Minor field (NSDRMENTOD) | | Detailed field (NSDRMEDTOD) ^a | | Fine field (PHDFIELD) ^a | | Start year | End year |
| | Code | Label | Code | Label | Code | Label | Code | Label | | |
| | | | | | 1706 | Nutrition sciences | 163 | Nutrition sciences | 1958 | Present |
| | | | | | 1707 | Pharmacology and toxicology | 167 | Environmental toxicology | 2010 | Present |
| | | | | | | | 169 | Toxicology | 1966 | Present |
| | | | | | | | 180 | Pharmacology, human and animal | 1958 | Present |
| | | | | | | | 211 | Environmental toxicology | 2004 | 2009 |
| | | | | | 1708 | Physiology, pathology, and related sciences | 145 | Endocrinology | 1983 | Present |
| | | | | | | | 158 | Cancer biology | 2007 | Present |
| | | | | | | | 175 | Pathology, human and animal | 1958 | Present |
| | | | | | 1709 | Biological and biomedical sciences, general | 185 | Physiology, human and animal | 1960 | Present |
| | | | | | | | 103 | Biomedical sciences | 1995 | Present |
| | 1710 | Biological and biomedical sciences, other | 198 | Biology/ biomedical sciences, general | 1958 | Present | | | | |
| | | | 107 | Biotechnology | 1993 | Present | | | | |
| | 2 | Computer and information sciences | 21 | Computer and information sciences | 199 | Biology/ biomedical sciences, other | 1958 | Present | | |
| | | | | | 2101 | Computer science | 400 | Computer science | 1973 | Present |
| | | | | | 2102 | Information science, studies | 410 | Information science/ systems | 1983 | Present |
| | | | | | 2103 | Computer and information sciences, other | 418 | Computer and information sciences, general | 2014 | Present |
| | 3 | Mathematics and statistics | 31 | Mathematics and statistics | 419 | Computer/ information sciences, other | 1999 | Present | | |
| | | | | | 3101 | Applied mathematics | 420 | Applied mathematics | 1958 | Present |
| | | | | | 3102 | Mathematics | 425 | Algebra | 1958 | Present |
| | | | | | | | 430 | Analysis and functional analysis | 1958 | Present |
| 435 | | | | | | | Geometry/ geometric analysis | 1958 | Present | |
| 440 | | | | | | | Logic | 1958 | Present | |
| 445 | | | | | | | Number theory | 1958 | Present | |
| 455 | | | | | | | Topology/ foundations | 1958 | Present | |
| 460 | | | | | Computing theory and practice | 1960 | Present | | | |
| 498 | | | | | Mathematics/ statistics, general | 1958 | Present | | | |
| 3103 | | | | | Statistics | 450 | Statistics | 1958 | Present | |
| 3104 | | | | | Mathematics and statistics, other | 465 | Operations research (mathematics) | 1973 | Present | |
| | 499 | Mathematics/ statistics, other | 1958 | Present | | | | | | |
| 4 | Physical sciences, geosciences, atmospheric, and ocean sciences | 41 | Astronomy and astrophysics | 930 | Operations research (business management/ administration) | 1983 | Present | | | |
| | | | | 4101 | Astronomy and astrophysics | 500 | Astronomy | 1969 | Present | |
| | | | | | | 505 | Astrophysics | 1969 | Present | |

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Comparison of science, engineering, and health doctoral fields of study in the SDR and the SED: Field of study aligned to NCSES Taxonomy of Disciplines

(Crosswalk)

| SDR field of study aggregations aligned with ToD | | | | | | | SED field of study information | | | |
|--|--------------------------|-------|--------------------------|--|--|---|------------------------------------|--|------------|--------------------------------------|
| SEH group | Broad field (NSDRMEMTOD) | | Minor field (NSDRMENTOD) | | Detailed field (NSDRMEDTOD) ^a | | Fine field (PHDFIELD) ^a | | Start year | End year |
| | Code | Label | Code | Label | Code | Label | Code | Label | | |
| | | | | | | | 506 | Astronomy and astrophysics | 1958 | 1969 |
| | | | | | | | 509 | Astronomy, other | 2010 | Present |
| | | | 42 | Chemistry, except biochemistry | 4201 | Inorganic chemistry | 522 | Inorganic chemistry | 1958 | Present |
| | | | | | 4202 | Organic chemistry | 526 | Organic chemistry | 1958 | Present |
| | | | | | 4203 | Chemistry, other, except biochemistry | 520 | Analytical chemistry | 1958 | Present |
| | | | | | | | 521 | Agricultural/ food | 1958 | 1979 |
| | | | | | | | 524 | Nuclear chemistry | 1960 | 2003 |
| | | | | | | | 527 | Chemical biology | 2016 | Present |
| | | | | | | | 530 | Physical chemistry | 1958 | Present |
| | | | | | | | 532 | Polymer chemistry | 1973 | Present |
| | | | | | | | 534 | Theoretical chemistry | 1960 | Present |
| | | | | | | | 538 | Chemistry, general | 1958 | Present |
| | | | | | | | 539 | Chemistry, other | 1958 | Present |
| | | | | | | | 43 | Geosciences, atmospheric, and ocean sciences | 4301 | Atmospheric sciences and meteorology |
| | | | 512 | Atmospheric physics and dynamics | 1976 | Present | | | | |
| | | | 514 | Meteorology | 1958 | Present | | | | |
| | | | 518 | Atmospheric science/ meteorology, general | 1983 | Present | | | | |
| | | | 519 | Atmospheric science/ meteorology, other | 1976 | Present | | | | |
| | | | 4302 | Geological and earth sciences, geosciences | 540 | Geology | | | 1958 | Present |
| | | | | | 542 | Geochemistry | | | 1968 | Present |
| | | | | | 544 | Geophysics and seismology | | | 1976 | Present |
| | | | | | 545 | Geophysics, solid earth | | | 1958 | 1976 |
| | | | | | 546 | Paleontology | | | 1958 | Present |
| | | | | | 548 | Mineralogy and petrology | | | 1969 | Present |
| | | | | | 549 | Mineralogy/ petrology/ geological chemistry | | | 1958 | 1969 |
| | | | | | 550 | Stratigraphy and sedimentation | | | 1958 | Present |
| | | | 552 | Geomorphology and glacial geology | 1958 | Present | | | | |
| | | | 554 | Applied geology | 1969 | 1991 | | | | |
| | | | 555 | Applied geology/ geological engineering | 1958 | 1969 | | | | |
| | | | 558 | Geological and earth sciences, general | 1959 | Present | | | | |
| | | | 559 | Geological and earth sciences, other | 1958 | Present | | | | |
| | | | 585 | Hydrology and water resources | 1959 | Present | | | | |
| | | | 4303 | Ocean sciences and marine sciences | 152 | Marine biology and biological oceanography | 2012 | Present | | |

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Comparison of science, engineering, and health doctoral fields of study in the SDR and the SED: Field of study aligned to NCSES Taxonomy of Disciplines

(Crosswalk)

| SDR field of study aggregations aligned with ToD | | | | | | | SED field of study information | | | | | | | | | | |
|--|--|-------|--|---------|--|---------|------------------------------------|---|------------|-------------------------------------|------------|---------|---------------------|-----|-------------------------------|------|---------|
| SEH group | Broad field (NSDRMEMTOD) | | Minor field (NSDRMENTOD) | | Detailed field (NSDRMEDTOD) ^a | | Fine field (PHDFIELD) ^a | | Start year | End year | | | | | | | |
| | Code | Label | Code | Label | Code | Label | Code | Label | | | | | | | | | |
| | | | 44 | Physics | 4401 | Physics | 595 | Marine sciences | 1983 | Present | | | | | | | |
| | | | | | | | 599 | Ocean/ marine, other | 1977 | Present | | | | | | | |
| | | | | | | | 4304 | Oceanography, chemical and physical | 590 | Oceanography, chemical and physical | 1958 | Present | | | | | |
| | | | | | | | 560 | Acoustics | 1958 | Present | | | | | | | |
| | | | | | | | 561 | Atomic/ molecular/ chemical physics | 1958 | Present | | | | | | | |
| | | | | | | | 562 | Electron physics | 1983 | 1991 | | | | | | | |
| | | | | | | | 563 | Electromagnetism | 1958 | 1979 | | | | | | | |
| | | | | | | | 564 | Particle (elementary) physics | 1958 | Present | | | | | | | |
| | | | | | | | 565 | Biophysics | 2004 | Present | | | | | | | |
| | | | | | | | 566 | Fluids | 1959 | 2003 | | | | | | | |
| | | | | | | | 567 | Mechanics | 1958 | 1976 | | | | | | | |
| | | | | | | | 568 | Nuclear physics | 1958 | Present | | | | | | | |
| | | | | | | | 569 | Optics/ photonics | 1958 | Present | | | | | | | |
| | | | | | | | 570 | Plasma/ fusion physics | 1967 | Present | | | | | | | |
| | | | | | | | 572 | Polymer physics | 1983 | Present | | | | | | | |
| | | | | | | | 573 | Thermal physics | 1960 | 1981 | | | | | | | |
| | | | | | | | 574 | Condensed matter/ low temperature physics | 1958 | Present | | | | | | | |
| | | | | | | | 576 | Applied physics | 2004 | Present | | | | | | | |
| | | | | | | | 578 | Physics, general | 1958 | Present | | | | | | | |
| | | | | | | | 579 | Physics, other | 1958 | Present | | | | | | | |
| | | | | | | | | 5 | Psychology | 51 | Psychology | 5101 | Clinical psychology | 600 | Clinical psychology | 1958 | Present |
| | | | | | | | | | | | | | | 602 | Behavioral analysis | 2012 | Present |
| | | | | | | | | | | | | | | 609 | Counseling | 1958 | Present |
| | | | | | | | | | | | | | | 614 | Health and medical psychology | 2012 | Present |
| | | | | | | | | | | | | | | 620 | Family psychology | 1995 | Present |
| | | | | | | | | | | | | | | 642 | Community psychology | 2016 | Present |
| | | | | | | | | | | | | | | 618 | Educational psychology | 1958 | Present |
| | | | | | | | | | | | | | | 636 | School psychology | 1960 | Present |
| 822 | Educational psychology | 1958 | Present | | | | | | | | | | | | | | |
| 5104 | Industrial and organizational psychology | 621 | Industrial and organizational | 1958 | Present | | | | | | | | | | | | |
| 5105 | Research and experimental psychology | 603 | Cognitive psychology and psycholinguistics | 1983 | Present | | | | | | | | | | | | |
| | | 606 | Comparative psychology | 1962 | 2009 | | | | | | | | | | | | |
| | | | | | | | 612 | Developmental and child psychology | 1958 | Present | | | | | | | |

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|--|--------------------------|---|--------------------------|--|--|---------|------------------------------------|---|------------|---------------------|-----------|---------|-----------|-----|---|------|---------|
| SEH group | Broad field (NSDRMEMTOD) | | Minor field (NSDRMENTOD) | | Detailed field (NSDRMEDTOD) ^a | | Fine field (PHDFIELD) ^a | | Start year | End year | | | | | | | |
| | Code | Label | Code | Label | Code | Label | Code | Label | | | | | | | | | |
| 6 | | | | | | | 613 | Human development and family studies | 1994 | Present | | | | | | | |
| | | | | | | | 615 | Experimental psychology | 1958 | Present | | | | | | | |
| | | | | | | | 624 | Personality psychology | 1958 | Present | | | | | | | |
| | | | | | | | 627 | Physiological/ psychobiology psychology | 1961 | Present | | | | | | | |
| | | | | | | | 630 | Psychometrics | 1958 | 2003 | | | | | | | |
| | | | | | | | 633 | Psychometrics and quantitative psychology | 1983 | Present | | | | | | | |
| | | | | | | | 639 | Social psychology | 1958 | Present | | | | | | | |
| | | | | | | | 5106 | Psychology, general | 648 | Psychology, general | 1958 | Present | | | | | |
| | | | | | | | 5107 | Psychology, other | 649 | Psychology, other | 1958 | Present | | | | | |
| | | | | | | | 61 | Social sciences | | 61 | Economics | 6101 | Economics | 000 | Agricultural economics | 1969 | Present |
| | | | | | | | | | | | | | | 003 | Natural resource/ environmental economics (agricultural sciences) | 2012 | Present |
| | | | | | | | | | | | | | | 665 | Natural resource/ environmental economics (social sciences) | 2012 | Present |
| | | | | | | | | | | | | | | 667 | Economics | 1958 | Present |
| | | | | | | | | | | | | | | 668 | Econometrics | 1958 | Present |
| | 678 | Political science and government | 1974 | Present | | | | | | | | | | | | | |
| | 679 | Political science/ public administration | 1958 | 1976 | | | | | | | | | | | | | |
| | 217 | Health policy analysis | 2012 | Present | | | | | | | | | | | | | |
| | 682 | Public policy analysis | 1983 | Present | | | | | | | | | | | | | |
| | 662 | Demography/ population studies | 1983 | Present | | | | | | | | | | | | | |
| | 686 | Sociology | 1958 | Present | | | | | | | | | | | | | |
| | 650 | Anthropology | 1958 | Present | | | | | | | | | | | | | |
| | 655 | Anthropology, cultural | 2014 | Present | | | | | | | | | | | | | |
| | 656 | Anthropology, physical and biological | 2014 | Present | | | | | | | | | | | | | |
| | 651 | Gender and women's studies | 2014 | Present | | | | | | | | | | | | | |
| | 6402 | Area, ethnic, cultural, gender, and group studies | 652 | Area/ ethnic/ cultural/ gender studies | 1958 | Present | | | | | | | | | | | |
| | | | 770 | American/ U.S. studies | 1975 | Present | | | | | | | | | | | |
| | 6403 | Geography and cartography | 670 | Geography | 1958 | Present | | | | | | | | | | | |
| | 6404 | International relations and national security studies | 674 | International relations/ affairs | 1958 | Present | | | | | | | | | | | |
| | 6405 | Linguistics | 675 | Applied linguistics | 2016 | Present | | | | | | | | | | | |
| | | | 676 | Linguistics | 1958 | Present | | | | | | | | | | | |
| 6406 | Urban studies, affairs | 694 | Urban affairs/ studies | 1959 | Present | | | | | | | | | | | | |

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(Crosswalk)

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|--|---|-------------|--------------------------|--|--|--|---|---|------------|----------------------------|------|---------|
| SEH group | Broad field (NSDRMEMTOD) | | Minor field (NSDRMENTOD) | | Detailed field (NSDRMEDTOD) ^a | | Fine field (PHDFIELD) ^a | | Start year | End year | | |
| | Code | Label | Code | Label | Code | Label | Code | Label | | | | |
| | | | | | 6407 | Social sciences, other | 658 | Criminology | 1980 | Present | | |
| | | | | | | | 684 | Gerontology | 2010 | Present | | |
| | | | | | | | 690 | Statistics | 1967 | Present | | |
| | | | | | | | 698 | Social sciences, general | 1958 | Present | | |
| | | | | | | | 699 | Social sciences, other | 1958 | Present | | |
| | | | | | | | 710 | History, science and technology and society | 1971 | Present | | |
| | | | | | | | 773 | Archaeology | 1958 | Present | | |
| Engineering | 7 | Engineering | 71 | Aerospace, aeronautical, and astronautical engineering | 7101 | Aerospace, aeronautical, and astronautical engineering | 300 | Aerospace, aeronautical and astronautical engineering | 1958 | Present | | |
| | | | 72 | Chemical engineering | 7201 | Chemical engineering | 312 | Chemical engineering | 1958 | Present | | |
| | | | 73 | Civil engineering | 7301 | Civil engineering | 369 | Polymer and plastics engineering | 1983 | Present | | |
| | | | | | | | 315 | Civil engineering | 1958 | Present | | |
| | | | | | | | 316 | Structural engineering | 2010 | Present | | |
| | | | | | | | 336 | Environmental health engineering | 1958 | Present | | |
| | | | | | | | 337 | Geotechnical and geoenvironmental engineering | 2012 | Present | | |
| | | | | | | | 373 | Transportation and highway engineering | 2012 | Present | | |
| | | | 74 | Electrical and computer engineering | 7401 | Computer engineering | 376 | Engineering management and administration | 2007 | Present | | |
| | | | | | | | 321 | Computer engineering | 1975 | Present | | |
| | | | | | | | 7402 | Electrical, electronics, and communications engineering | 318 | Communications engineering | 1983 | Present |
| | | | | | | | | | 322 | Electrical engineering | 1958 | 1985 |
| | | | 75 | Mechanical engineering | 7501 | Mechanical engineering and robotics | 323 | Electronics engineering | 1958 | 1983 | | |
| | | | | | | | 324 | Electrical, electronics and communications engineering | 1983 | Present | | |
| | | | 76 | Metallurgical and materials engineering | 7601 | Metallurgical and materials engineering | 345 | Mechanical engineering | 1958 | Present | | |
| | | | | | | | 415 | Robotics | 2010 | Present | | |
| | | | | | | | 309 | Ceramic sciences engineering | 1958 | 2013 | | |
| | | | | | | | 342 | Materials science engineering | 1969 | Present | | |
| | | | 77 | Other engineering | 7701 | Agricultural engineering | 348 | Metallurgical engineering | 1958 | Present | | |
| | | | | | | | 351 | Mining and mineral engineering | 1969 | 2013 | | |
| 7702 | Bioengineering and Biomedical engineering | 303 | | | | | Agricultural engineering | 1958 | Present | | | |
| 7703 | Engineering mechanics, physics, and science | 306 | | | | | Bioengineering and biomedical engineering | 1969 | Present | | | |
| 327 | Engineering mechanics | 1958 | | | | | Present | | | | | |
| | | | | | | 330 | Engineering physics | 1958 | Present | | | |

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Comparison of science, engineering, and health doctoral fields of study in the SDR and the SED: Field of study aligned to NCSES Taxonomy of Disciplines

(Crosswalk)

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|--|--------------------------|--------|--------------------------|--------|--|--|------------------------------------|--|------------|----------|
| SEH group | Broad field (NSDRMEMTOD) | | Minor field (NSDRMENTOD) | | Detailed field (NSDRMEDTOD) ^a | | Fine field (PHDFIELD) ^a | | Start year | End year |
| | Code | Label | Code | Label | Code | Label | Code | Label | | |
| | | | | | | | 333 | Engineering science | 1983 | Present |
| | | | | | 7704 | Industrial and manufacturing engineering | 339 | Industrial and manufacturing engineering | 1958 | Present |
| | | | | | | | 363 | Operations research (engineering) | 1971 | Present |
| | | | | | | | 372 | Systems engineering | 1975 | Present |
| | | | | | 7705 | Nuclear engineering | 357 | Nuclear engineering | 1969 | Present |
| | | | | | | | 068 | Forest engineering | 1988 | 2003 |
| | | | | | | | 354 | Naval architecture/ marine engineering | 1983 | 1991 |
| | | | | | 7706 | Engineering, other | 360 | Ocean engineering | 1983 | Present |
| | | | | | | | 366 | Petroleum engineering | 1973 | Present |
| | | | | | | | 398 | Engineering, general | 1958 | Present |
| | | | | | | | 399 | Engineering, other | 1958 | Present |
| | | | | | | | 547 | Fuel technology/ petroleum engineering | 1967 | 1979 |
| | | | | | 8101 | Communication disorders sciences and services | 200 | Speech-language pathology and audiology | 1963 | Present |
| | | | | | | | 212 | Health systems/ service administration | 1993 | Present |
| | | | | | 8102 | Hospital and medical administration services | 219 | Public health/ epidemiology | 1958 | 1982 |
| | | | | | | | 224 | Hospital administration | 1958 | 1977 |
| | | | | | | | 225 | Medicine and surgery | 1958 | 1976 |
| | | | | | 8103 | Pharmacy, pharmaceutical sciences, and administration | 240 | Pharmaceutical sciences | 1958 | Present |
| | | | | | | | 528 | Medicinal/ pharmaceutical | 1958 | Present |
| | | | | | | | 210 | Environmental health | 1972 | Present |
| | | | | | | | 213 | Health services research | 2016 | Present |
| | | | | | 8104 | Public health | 215 | Public health | 1978 | Present |
| | | | | | | | 280 | Health and behavior | 2014 | Present |
| | | | | | | | 577 | Medical physics/ radiological science | 2010 | Present |
| | | | | | 8105 | Registered nursing, nursing administration, nursing research | 230 | Nursing science | 1977 | Present |
| | | | | | | | 207 | Oral biology/ oral pathology | 2010 | Present |
| | | | | | | | 222 | Kinesiology/ exercise science | 1994 | Present |
| | | | | | | | 227 | Gerontology | 2010 | Present |
| | | | | | 8106 | Health sciences, other | 245 | Rehabilitation/ therapeutic services | 1991 | Present |
| | | | | | | | 250 | Veterinary sciences | 1958 | Present |
| | | | | | | | 298 | Health sciences, general | 1962 | Present |
| Health | 8 | Health | 81 | Health | | | | | | |

TABLE A-1

Comparison of science, engineering, and health doctoral fields of study in the SDR and the SED: Field of study aligned to NCSES Taxonomy of Disciplines

(Crosswalk)

| SDR field of study aggregations aligned with ToD | | | | | | | SED field of study information | | | |
|--|--------------------------|-------|--------------------------|-------|--|-------|------------------------------------|---|------------|----------|
| SEH group | Broad field (NSDRMEMTOD) | | Minor field (NSDRMENTOD) | | Detailed field (NSDRMEDTOD) ^a | | Fine field (PHDFIELD) ^a | | Start year | End year |
| | Code | Label | Code | Label | Code | Label | Code | Label | | |
| | | | | | | | 299 | Health sciences, other | 1958 | Present |
| | | | | | | | 610 | Marriage and family therapy/ counseling | 2016 | Present |

NCSES = National Center for Science and Engineering Statistics. SDR = Survey of Doctorate Recipients. SED = Survey of Earned Doctorates. SEH = science, engineering, and health. ToD = Taxonomy of Disciplines.

^a Fine fields (PHDFIELD and NSDRMEDTOD) are not available in the downloadable 2019 SDR Public Use File.

Note(s):

SDR is a sample survey; SED is a census. Start year and end year are defined as the earliest and latest recorded use of a field in the 2017 Doctorate Records File, respectively. Field of study reporting for the 2019 SDR uses the updated disciplines first presented in 2017, which better align with the NCSES ToD which is based on the Classification of Instructional Programs (CIP 2010) issued by the National Center for Education Statistics. This crosswalk displays the field of study aggregations aligned to the ToD.

Source(s):

National Center for Science and Engineering Statistics, Survey of Doctorate Recipients: 2019.