

TABLE B-1. Comparison of science, engineering, and health doctoral fields of study in SDR data tables to fields coded in the SDR and SED

SDR detailed statistical tables		SDR field of study code	SED field of study code
Major field	Minor field		
Biological/agricultural/ environmental life sciences	Agricultural/food sciences	605 Animal sciences	005 Animal breeding/genetics 007 Animal husbandry ¹ 010 Animal nutrition 012 Dairy science 014 Poultry science 019 Animal sciences, other
		606 Food sciences/technology	042 Food distribution ¹ 043 Food engineering 040 Food sciences ¹ 044 Food sciences, other
		607 Plant sciences	020 Agronomy/crop science 050 Horticulture science 025 Plant breeding/genetics 030 Plant pathology 032 Plant protection/pest management ¹ 039 Plant sciences, other
		608 Other agricultural sciences	098 Agricultural sciences, general 046 Soil chemistry/microbiology 045 Soil sciences ¹ 099 Agricultural sciences, other 049 Soil sciences, other
	Biochemistry/biophysics	631 Biochemistry/biophysics	100 Biochemistry 105 Biophysics
	Cell/molecular biology	634 Cell/molecular biology	136 Cell biology 154 Molecular biology
	Environmental life sciences	680 Environmental science or studies	081 Environmental science 580 Environmental science 054 Fish and wildlife science ¹ 055 Fisheries science/management
		681 Forestry sciences	074 Conservation/renewable natural resources 066 Forest biology 068 Forest engineering 070 Forest management 065 Forestry science ¹ 060 Wildlife ¹ 080 Wildlife/range management 072 Wood science and pulp/paper technology 079 Forestry and related sciences, other
	Microbiology	637 Microbiological sciences/immunology	110 Bacteriology 157 Microbiology 156 Microbiology/bacteriology ¹
	Zoology	641 Zoology, general	148 Entomology 189 Zoology, other
	Other biological sciences	632 Biology, general	198 Biological sciences, general
		633 Botany	120 Plant pathology 125 Plant physiology 129 Botany, other
		635 Ecology	139 Ecology
		636 Genetics, animal/plant	171 Genetics ¹ 170 Genetics, human/animal 115 Plant genetics
		638 Nutritional sciences	163 Nutritional sciences
		639 Pharmacology, human/animal	180 Pharmacology, human/animal
		640 Physiology/pathology, human/animal	158 Cancer biology 186 Animal/plant physiology ¹ 175 Pathology, human/animal 185 Physiology, human/animal

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Biological/agricultural/ environmental life sciences, continued	Other biological sciences, continued	642 Other biological sciences	102 Bioinformatics
		642 Other biological sciences, continued	130 Anatomy
			137 Evolutionary biology
			151 Biological immunology
			103 Biomedical sciences
			133 Biometrics/biostatistics
			107 Biotechnology research
			140 Hydrobiology ¹
			142 Developmental biology/embryology
			145 Endocrinology
			160 Neuroscience
			166 Parasitology
			169 Toxicology
	199 Biological sciences, other		
Computer/information sciences	Computer/information sciences	D67 Computer/information sciences	400 Computer science 410 Information science/systems 419 Computer/information sciences, other
Mathematics/statistics	Mathematics/statistics	841 Applied mathematics	420 Applied mathematics
		842 Mathematics, general	498 Mathematics, general
		843 Operations research	363 Operations research
			465 Operations research
			930 Operations research
		844 Statistics	450 Mathematical statistics
			690 Statistics
		845 Other mathematics	425 Algebra
			430 Analysis/functional analysis
			460 Computing theory/practice
435 Geometry			
440 Logic			
445 Number theory			
455 Topology			
499 Mathematics, other			
Physical sciences	Astronomy/astrophysics	871 Astronomy/astrophysics	500 Astronomy
			506 Astronomy/astrophysics ¹
			505 Astrophysics
	Chemistry, except biochemistry	873 Chemistry, except biochemistry	520 Analytical
			521 Agricultural/food ¹
			538 Chemistry, general
			522 Inorganic
			528 Medicinal/pharmaceutical
			524 Nuclear
			526 Organic
			530 Physical
			532 Polymer
			534 Theoretical
			539 Chemistry, other
			Earth/atmospheric/ocean sciences
512 Atmospheric dynamics			
518 Atmospheric sciences/meteorology, general			
514 Meteorology			
519 Atmospheric sciences/meteorology, other			
875 Geology	554 Applied geology ¹		
	555 Applied geology/geological engineering ¹		
	548 Mineralogy, petrology		
	549 Mineralogy/petrology/geological chemistry ¹		
	540 Geology		
	552 Geomorphology/glacial geology		

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Physical sciences, continued	Earth/atmospheric/ocean sciences, continued		550 Stratigraphy/sedimentation
		876 Geological sciences, other	547 Fuel technology/petroleum engineering ¹
		876 Geological sciences, other continued	542 Geochemistry
			558 Geological and related sciences, general
			559 Geological and related sciences, other
			544 Geophysics, seismology
		545 Geophysics, solid earth ¹	
		546 Paleontology	
		877 Oceanography	590 Oceanography
		D87 Earth sciences/other physical sciences	585 Hydrology/water resources
		595 Marine sciences	
		599 Physical sciences, other	
	Physics	878 Physics, except biophysics	560 Acoustics
			576 Applied ¹
			565 Biophysics ¹
			561 Chemical and atomic/molecular
			563 Electromagnetism ¹
			562 Electron physics ¹
			564 Elementary particle
			566 Fluids
			567 Mechanics ¹
			568 Nuclear
			569 Optics
			578 Physics, general
			570 Plasma/high-temperature
			572 Polymer
			574 Solid state/low-temperature
			575 Theoretical ¹
			573 Thermal ¹
			579 Physics, other
Psychology	Psychology	891 Clinical psychology	600 Clinical
		892 Counseling psychology	609 Counseling
		704 Educational psychology	618 Educational
			822 Educational psychology
		893 Experimental psychology	615 Experimental
		894 General psychology	648 Psychology, general
		895 Industrial/organizational psychology	621 Industrial/organizational
		896 Social psychology	639 Social
		897 Other psychology	603 Cognitive psychology/psycholinguistics
			606 Comparative
	612 Developmental/child		
	616 Experimental/comparative psychology/physiology ¹		
	620 Family/marriage counseling		
	619 Human engineering ¹		
	613 Human/individual and family development		
	624 Personality		
	627 Physiological/psychobiology		
	630 Psychometrics		
	633 Quantitative		
	636 School		
	649 Psychology, other		
Social sciences	Economics	601 Agriculture, economics	002 Agricultural business/management
			000 Agricultural economics
	923 Economics	666 Economics	
		667 Economics	
		668 Econometrics	
	Political sciences	927 International relations	674 International relations/affairs

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SDR detailed statistical tables				
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Social sciences, continued	Political sciences, continued	928 Political science/government	678 Political science/government 679 Political science/public administration ¹	
		902 Public policy studies	682 Public policy analysis	
	Sociology	929 Sociology	686 Sociology	
	Other social sciences	921 Anthropology/archeology	650 Anthropology 773 Archeology	
		620 Area/ethnic studies	770 American studies	
		620 Area/ethnic studies, continued	652 Area studies	
		922 Criminology	658 Criminology	
		924 Geography	670 Geography	
		925 History of science	710 History/philosophy of science/technology	
		771 Linguistics	676 Linguistics 729 Linguistics	
		930 Other social sciences	662 Demography/population studies 698 Social sciences, general 694 Urban affairs/studies 699 Social sciences, other	
	Engineering	Aerospace/aeronautical/astronautical engineering	721 Aerospace, aeronautical, astronautical engineering	300 Aerospace/aeronautical/astronautical
		Chemical engineering	725 Chemical engineering	312 Chemical
Civil engineering		726 Civil engineering	315 Civil	
Electrical/computer engineering		727 Computer/systems engineering	321 Computer 372 Systems	
		728 Electrical/electronics/communications engineering	318 Communications 322 Electrical ¹ 323 Electronics ¹ 324 Electrical/electronics	
Materials/metallurgical engineering		734 Materials engineering, including ceramics/textiles	309 Ceramic science 342 Materials science 369 Polymer/plastics 375 Textile ¹	
		736 Metallurgical engineering	348 Metallurgical	
Mechanical engineering		735 Mechanical engineering	345 Mechanical	
Other engineering		722 Agricultural engineering	303 Agricultural	
		724 Bioengineering/biomedical engineering	306 Bioengineering/biomedical	
		729 Engineering sciences/mechanics/physics ¹	327 Engineering mechanics 330 Engineering physics 333 Engineering science	
		730 Environmental engineering	336 Environmental health engineering	
		731 Engineering, general	398 Engineering, general	
		733 Industrial/manufacturing engineering	339 Industrial/manufacturing	
		737 Mining/minerals engineering	351 Mining/mineral	
		738 Naval architecture/marine engineering	354 Naval architecture/marine engineering ¹	
		739 Nuclear engineering	357 Nuclear	
		740 Petroleum engineering	366 Petroleum	
		741 Other engineering	376 Engineering management and administration	
		D74 Other engineering	360 Ocean 399 Engineering, other	
		Health	Health	781 Audio/speech pathology
782 Health services administration				212 Health systems/services administration
786 Medicine (e.g., dentistry, optometry, osteopathic, podiatry, veterinary)				205 Dentistry ¹ 225 Medical/surgery ¹ 235 Optometry/ophthalmology ¹ 250 Veterinary medicine
787 Nursing (4 years or longer program)				230 Nursing
788 Pharmacy				240 Pharmacy
789 Physical therapy/other rehabilitation/				245 Rehabilitation/therapeutic services

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Health, continued	Health, continued	therapeutic services	
		790 Public health (including environmental health/epidemiology)	210 Environmental health 211 Environmental toxicology ¹ 220 Epidemiology
		790 Public health (including environmental health/epidemiology) continued	215 Public health 219 Public health/epidemiology ¹
		791 Other health/medical sciences	222 Exercise physiology/science, kinesiology 298 Health sciences, general 224 Hospital administration ¹ 299 Health sciences, other

SED = Survey of Earned Doctorates; SDR = Survey of Doctorate Recipients.

¹ Doctoral field dropped or replaced; no longer used in the SED as of 2007 or earlier.

NOTES: SDR is a sample survey; SED is a census. When sampling for SDR from the SED, it is not possible to sample all individual SED fields separately or to analyze SDR data by all individual SED field of study codes. SDR field of study codes provided here represent greatest level of analytic detail that sampling of SDR allows when field is the only variable used for analysis. SED field of study codes are presented as a reference. Major/minor categories used in detailed statistical tables further aggregate SDR field of study codes, necessary when SDR field of study is cross-tabulated with other data from SDR. For further information on SDR sampling, see 2008 SDR methodology report, available on request from the project officer.

SOURCE: National Science Foundation/National Center for Science and Engineering Statistics, Survey of Doctorate Recipients: 2008.