

APPENDIX A. Classification of Web of Science categories into non-clinical basic science, clinical science, multidisciplinary science, and other science based on NSF's classification of fields of study

#	Counts	Web of Science Category	Non-Clinical	Clinical	Multi-disc	Other	Name on NSF list
1	115402	Biochemistry & Molecular Biology	X				Biochemistry
2	86350	Neurosciences	X				Neuroscience
3	65035	Cell Biology	X				Cell Biology and Anatomy
4	55905	Multidisciplinary Sciences			X		NA
5	47710	Oncology		X			Oncology
6	41626	Immunology	X				Immunology
7	37356	Genetics & Heredity	X				Genetics, General
8	37293	Public, Environmental & Occupational Health		X			Occupational Health and Industrial Hygiene
9	31937	Psychiatry		X			Psychiatry
10	30352	Pharmacology & Pharmacy		X			Pharmacy (PharmD [United States] PharmD, BS/BPharm [Canada])
11	29829	Endocrinology & Metabolism		X			Endocrinology and Metabolism
12	28471	Physiology	X				Physiology, General
13	27199	Clinical Neurology		X			Neurology
14	23593	Biochemical Research Methods	X				Biochemistry
15	23257	Medicine, Research & Experimental		X			Medicine (MD)
16	23140	Radiology, Nuclear Medicine & Medical Imaging		X			Nuclear Radiology
17	22414	Chemistry, Multidisciplinary	X				Chemistry, Other
18	22399	Microbiology	X				Microbiology, General
19	21071	Cardiac & Cardiovascular Systems	X				Cardiovascular Science
20	19993	Biophysics	X				Biophysics
21	19358	Infectious Diseases		X			Infectious Disease
22	18593	Biotechnology & Applied Microbiology	X				Microbiology, General
23	18444	Hematology		X			Hematology
24	18320	Peripheral Vascular Disease		X			Vascular Surgery
25	17960	Virology	X				Virology
26	15271	Surgery		X			General Surgery
27	14767	Pediatrics		X			Pediatrics
28	13974	Psychology, Clinical	X				Clinical Psychology
29	13493	Psychology	X				Psychology, General
30	13300	Engineering, Biomedical	X				Biomedical/Medical Engineering
31	12892	Developmental Biology	X				Developmental Biology and Embryology
32	12744	Ophthalmology		X			Ophthalmology
33	12189	Medicine, General & Internal		X			Internal Medicine
34	11732	Substance Abuse				X	Substance Abuse/Addiction Counseling
35	11469	Psychology, Developmental	X				Developmental and Child Psychology
36	11310	Mathematical & Computational Biology	X				Biomathematics and Bioinformatics, Other
37	11305	Respiratory System		X			Pulmonary Disease
38	11018	Chemistry, Organic	X				Organic Chemistry
39	10869	Toxicology	X				Toxicology
40	10744	Urology & Nephrology		X			Urology
41	10456	Gastroenterology & Hepatology		X			Gastroenterology
42	10263	Chemistry, Medicinal	X				Medicinal and Pharmaceutical Chemistry
43	10149	Behavioral Sciences				X	Behavioral Sciences
44	10104	Nutrition & Dietetics		X			Dietetics and Clinical Nutrition Services, Other
45	9858	Psychology, Experimental	X				Experimental Psychology
46	9498	Biology	X				Biology/Biological Sciences, General
47	9337	Geriatrics & Gerontology				X	Gerontology
48	9138	Health Care Sciences & Services		X			Health/Health Care Administration/Management
49	8887	Chemistry, Analytical	X				Analytical Chemistry
50	8838	Chemistry, Physical	X				Chemical Physics
51	8782	Obstetrics & Gynecology		X			Obstetrics and Gynecology
52	7722	Psychology, Multidisciplinary	X				Psychology, Other
53	7363	Statistics & Probability	X				Mathematical Statistics and Probability
54	7175	Health Policy & Services				X	Public Policy Analysis
55	6912	Gerontology				X	Gerontology

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56	6483	Pathology		X			Pathology
57	6209	Computer Science, Interdisciplinary Applications	X				Computer Science, Other
58	5984	Critical Care Medicine		X			Critical Care Medicine
59	5934	Environmental Sciences	X				Environmental Science
60	5919	Nanoscience & Nanotechnology	X				NA
61	5645	Neuroimaging		X			Diagnostic Radiology
62	5611	Sport Sciences		X			Sports Medicine
63	5415	Rehabilitation		X			Physical and Rehabilitation Medicine
64	5325	Materials Science, Biomaterials	X				Materials Science
65	5250	Materials Science, Multidisciplinary	X				Materials Science
66	5207	Parasitology	X				Parasitology
67	5043	Transplantation		X			Nephrology
68	5027	Audiology & Speech-Language Pathology		X			Audiology/Audiologist and Speech-Language Pathology/Pathologist
69	4761	Social Sciences, Biomedical				X	Social Sciences, Other
70	4664	Nursing		X			Nursing—Registered Nurse Training (RN, ASN, BSN, MSN)
71	4422	Zoology	X				Zoology/Animal Biology
72	4383	Orthopedics		X			Orthopedics/Orthopedic Surgery
73	4302	Otorhinolaryngology		X			Otolaryngology
74	4268	Rheumatology		X			Rheumatology
75	4069	Reproductive Biology	X				Reproductive Biology
76	3981	Cell & Tissue Engineering	X				Biomedical/Medical Engineering
77	3972	Optics	X				Optics/Optical Sciences
78	3720	Medical Informatics				X	Medical Informatics
79	3671	Dentistry, Oral Surgery & Medicine		X			Dentistry (DDS, DMD)
80	3261	Evolutionary Biology	X				Evolutionary Biology
81	3152	Spectroscopy	X				Radiation Biology/Radiobiology
82	3049	Family Studies				X	Human Development and Family Studies, General
83	3023	Acoustics	X				Acoustics
84	2992	Anesthesiology		X			Anesthesiology
85	2977	Psychology, Biological	X				Psychology, Other
86	2909	Physics, Atomic, Molecular & Chemical	X				Atomic/Molecular Physics
87	2884	Dermatology		X			Dermatology
88	2866	Plant Sciences	X				Plant Sciences, General
89	2758	Physics, Applied	X				Physics, Other
90	2579	Veterinary Sciences		X			Veterinary Sciences/Veterinary Clinical Sciences, General (Cert, MS, PhD)
91	2523	Linguistics				X	Linguistics
92	2391	Tropical Medicine		X			Community Health and Preventive Medicine
93	2304	Psychology, Social	X				Social Psychology
94	2211	Engineering, Electrical & Electronic	X				Electrical, Electronics, and Communications Engineering
95	2118	Allergy		X			Allergies and Immunology
96	2059	Anatomy & Morphology	X				Anatomy
97	1940	Ecology	X				Ecology
98	1937	Chemistry, Inorganic & Nuclear	X				Inorganic Chemistry
99	1740	Physics, Condensed Matter	X				Solid State and Low-Temperature Physics
100	1683	Social Sciences, Interdisciplinary				X	Social Sciences, Other
101	1633	Polymer Science	X				Polymer Chemistry
102	1607	Sociology				X	Sociology
103	1576	Social Work				X	Social Work
104	1561	Food Science & Technology	X				Food Science
105	1522	Emergency Medicine		X			Emergency Medicine
106	1467	Computer Science, Information Systems	X				Computer and Information Sciences, General
107	1368	Education & Educational Research				X	Education, General
108	1360	Psychology, Educational				X	Educational Psychology
109	1287	Education, Scientific Disciplines				X	Science Teacher Education/General Science Teacher Education
110	1220	Entomology	X				Entomology
111	1212	Computer Science, Artificial Intelligence	X				Artificial Intelligence and Robotics
112	1183	Medical Laboratory Technology		X			Laboratory Medicine
113	1180	Demography				X	Demography and Population Studies
114	1153	Information Science & Library Science				X	Library Science/Librarianship
115	1151	Women's Studies				X	Women's Studies
116	1128	Mycology	X				Mycology
117	1116	Crystallography	X				Atomic/Molecular Physics
118	1116	Engineering, Environmental	X				Environmental/Environmental Health Engineering
119	1030	Chemistry, Applied	X				Chemistry, Other

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120	1024	Economics				X	Economics, General
121	886	Imaging Science & Photographic Technology		X			Diagnostic Radiology
122	859	Psychology, Applied	X				Psychology, Other
123	835	Mathematics, Interdisciplinary Applications	X				Applied Mathematics, Other
124	827	Education, Special				X	Special Education and Teaching, General
125	766	Integrative & Complementary Medicine		X			Alternative and Complementary Medicine and Medical Systems, Other
126	761	Physics, Mathematical	X				Theoretical and Mathematical Physics
127	751	Instruments & Instrumentation	X				Instrumentation Technology/Technician
128	667	Criminology & Penology				X	Criminology
129	657	Physics, Multidisciplinary	X				Physics, Other
130	648	Anthropology				X	Anthropology
131	638	Physics, Fluids & Plasmas	X				Plasma and High-Temperature Physics
132	614	Psychology, Mathematical	X				Psychology, Other
133	546	Communication				X	Communication Studies/Speech Communication and Rhetoric
134	533	Nuclear Science & Technology	X				Nuclear Engineering
135	512	Primary Health Care		X			Health/Health Care Administration/Management
136	505	Ethics				X	Ethics
137	477	Microscopy	X				Instrumentation Technology/Technician
138	470	Electrochemistry	X				Chemistry, Other
139	430	Marine & Freshwater Biology	X				Marine Biology and Biological Oceanography
140	418	Medical Ethics				X	Bioethics/Medical Ethics
141	379	Ergonomics		X			NA
142	376	Mathematics, Applied	X				Applied Mathematics
143	375	Social Sciences, Mathematical Methods				X	Social Sciences, Other
144	337	Agriculture, Multidisciplinary	X				Agriculture, Agriculture Operations, and Related Sciences, Other
145	336	Computer Science, Theory & Methods	X				Computer Science
146	309	Law				X	Law (LLB, JD)
147	307	Social Issues				X	Social Sciences, Other
148	281	Computer Science, Software Engineering	X				Computer Software Engineering
149	281	Ethnic Studies				X	Ethnic, Cultural Minority, and Gender Studies, Other
150	270	Engineering, Chemical	X				Chemical Engineering
151	254	Andrology		X			Urology
152	244	Medicine, Legal		X			Medical Scientist (MS, Ph.D.)
153	244	Meteorology & Atmospheric Sciences	X				Atmospheric Sciences and Meteorology, General
154	240	Water Resources	X				Hydrology and Water Resources Science
155	225	Engineering, Industrial	X				Industrial Engineering
156	224	Language & Linguistics				X	Linguistics
157	211	Agriculture, Dairy & Animal Science	X				Dairy Science
158	206	Transportation				X	Transportation/Transportation Management
159	205	Fisheries	X				Fishing and Fisheries Sciences and Management
160	205	Mechanics	X				Engineering Mechanics
161	165	Environmental Studies				X	Environmental Studies
162	154	Automation & Control Systems	X				Electrical, Electronics, and Communications Engineering
163	152	Religion				X	Religion/Religious Studies
164	151	Political Science				X	Political Science and Government, General
165	146	Computer Science, Cybernetics	X				Computer Science, Other
166	145	Engineering, Multidisciplinary	X				Engineering, General
167	121	Engineering, Mechanical	X				Mechanical Engineering
168	121	Geography				X	Geography
169	103	Geosciences, Multidisciplinary	X				Geological and Earth Sciences/Geosciences, Other
170	97	Robotics	X				Artificial Intelligence and Robotics
171	95	Management				X	Business Administration and Management, General
172	94	Hospitality, Leisure, Sport & Tourism				X	Parks, Recreation, and Leisure Studies
173	82	Biodiversity Conservation	X				Ecology, Evolution, Systematics, and Population Biology, Other
174	77	History & Philosophy Of Science				X	History and Philosophy of Science and Technology
175	74	Planning & Development				X	Land Use Planning and Management/Development
176	73	Energy & Fuels	X				Petroleum Engineering
177	71	Urban Studies				X	Urban Studies/Affairs
178	68	Mathematics	X				Mathematics, General
179	67	Operations Research & Management Science				X	Operations Research
180	65	Industrial Relations & Labor				X	Labor and Industrial Relations
181	62	Physics, Nuclear	X				Nuclear Physics
182	59	Construction & Building Technology	X				Construction Engineering
183	57	Computer Science, Hardware & Architecture	X				Computer Hardware Engineering
184	52	Telecommunications	X				Computer Systems Networking and Telecommunications

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185	49	Materials Science, Coatings & Films	X				Materials Science
186	48	Business				X	Business/Managerial Economics
187	48	Physics, Particles & Fields	X				Elementary Particle Physics
188	42	Agronomy	X				Soil Science and Agronomy, General
189	41	Engineering, Civil	X				Civil Engineering, General
190	41	Thermodynamics	X				Mechanical Engineering
191	40	Engineering, Manufacturing	X				Manufacturing Engineering
192	39	Business, Finance				X	Finance, General
193	38	Public Administration				X	Public Administration
194	35	History				X	History, General
195	35	Philosophy				X	Philosophy
196	33	Remote Sensing	X				Geological and Earth Sciences/Geosciences, Other
197	32	Astronomy & Astrophysics	X				Astronomy and Astrophysics, Other
198	31	Geography, Physical				X	Geography, Other
199	30	Metallurgy & Metallurgical Engineering	X				Metallurgical Engineering
200	28	Limnology	X				Aquatic Biology/Limnology
201	28	Psychology, Psychoanalysis	X				Psychoanalysis and Psychotherapy
202	27	Area Studies				X	Area Studies, Other
203	27	GREEN & SUSTAINABLE SCIENCE & TECHNOLOGY			X		
204	27	International Relations				X	International Relations and Affairs
205	25	History Of Social Sciences				X	History, Other
206	24	Ornithology	X				Animal Sciences, General
207	23	Geochemistry & Geophysics	X				Geochemistry
208	23	Horticulture	X				Agricultural and Horticultural Plant Breeding
209	23	Humanities, Multidisciplinary				X	Humanities/Humanistic Studies
210	19	Music				X	Music, General
211	18	Agricultural Engineering	X				Agricultural/Biological Engineering and Bioengineering
212	18	Soil Science	X				Soil Science and Agronomy, General
213	16	Transportation Science & Technology	X				Transportation and Highway Engineering
214	15	Materials Science, Ceramics	X				Materials Science
215	15	Oceanography	X				Oceanography, Chemical and Physical
216	14	Engineering, Aerospace	X				Aerospace, Aeronautical, and Astronautical Engineering
217	13	Materials Science, Characterization & Testing	X				Materials Science
218	11	Mineralogy	X				Geochemistry and Petrology
219	9	Film, Radio, Television				X	Radio and Television
220	9	Materials Science, Composites	X				Materials Science
221	9	Materials Science, Textiles	X				Materials Science
222	7	Cultural Studies				X	Ethnic, Cultural Minority, and Gender Studies, Other
223	5	Agricultural Economics & Policy				X	Agricultural Economics
224	5	Archaeology				X	Paleontology
225	5	Forestry	X				Forestry, General
226	5	Literature				X	Foreign Languages and Literatures, General
227	5	Mining & Mineral Processing	X				Mining and Mineral Engineering
228	2	Geology	X				Geology/Earth Science, General
229	2	Materials Science, Paper & Wood	X				Materials Science
230	1	Logic				X	Logic