

# Scientific Disciplines

<b>Term</b>	Scientific Disciplines
<b>Abbreviation</b>	
<b>Definition</b>	A particular branch of scientific knowledge; "the science of genetics"
<b>Source</b>	<ul style="list-style-type: none"> <li>The classification uses the <a href="#">Frascati Field of Science and Technology (FOS)</a> as a foundation with some use of <a href="#">Wikipedia List of Academic Disciplines</a></li> <li>Information within ( ) and <i>italics</i> is for additional clarification, not part of the sub-discipline. EGI tools will use the information as part of a "Mouse Over Help Icon" where possible. If not, it will be left out of the user interface</li> <li>X.99 is a reserved code for all "other" categories</li> </ul>
<b>Owner</b>	
<b>Last updated</b>	21 May 2021

1. Natural Sciences		
1.1 Mathematics		
	1.1.1 Applied mathematics 1.1.2 Pure mathematics 1.1.3 Statistics and probability 1.1.99 Other	
1.2 Computer Sciences		
	1.2.1 Algorithms 1.2.2 Artificial Intelligence ( <i>expert systems, machine learning, robotics</i> ) 1.2.3 Computer architecture 1.2.4 Computer communications 1.2.5 Computer graphics 1.2.6 Computer security and reliability 1.2.7 Data structures 1.2.8 Distributed computing	1.2.9 Human-computer interaction 1.2.10 Operating systems 1.2.11 Parallel computing 1.2.12 Programming languages 1.2.13 Quantum computing 1.2.14 Software engineering 1.2.15 Theory of computation 1.2.99 Other
1.3 Information sciences		
	1.3.1 Data management 1.3.2 Data mining 1.3.3 Information retrieval 1.3.4 Information management	1.3.5 Knowledge management 1.3.6 Multimedia, hypermedia 1.3.99 Other
1.4 Earth Sciences		
	1.4.1 Atmospheric science 1.4.2 Climate research 1.4.3 Geochemistry 1.4.4 Geology 1.4.5 Geophysics 1.4.6 Hydrology 1.4.7 Mineralogy	1.4.8 Oceanography 1.4.9 Palaeontology 1.4.10 Physical geography 1.4.11 Seismology 1.4.12 Volcanology 1.4.13 Other
1.5 Biology Science		

	<ul style="list-style-type: none"> <li>1.5.1 Aerobiology</li> <li>1.5.2 Bacteriology</li> <li>1.5.3 Behavioural biology</li> <li>1.5.4 Biochemistry and molecular biology</li> <li>1.5.5 Biodiversity conservation</li> <li>1.5.6 Bioinformatics</li> <li>1.5.7 Biological rhythm</li> <li>1.5.8 Biology</li> <li>1.5.9 Biophysics</li> <li>1.5.10 Botany</li> <li>1.5.11 Cell biology</li> <li>1.5.12 Computational biology</li> <li>1.5.13 Cryobiology</li> <li>1.5.14 Developmental biology</li> <li>1.5.15 Ecology</li> </ul>	<ul style="list-style-type: none"> <li>1.5.16 Evolutionary biology</li> <li>1.5.17 Genetics and heredity</li> <li>1.5.18 Marine and Freshwater biology</li> <li>1.5.19 Mathematical biology</li> <li>1.5.20 Microbiology</li> <li>1.5.21 Mycology</li> <li>1.5.22 Plant science</li> <li>1.5.23 Reproductive biology</li> <li>1.5.24 Structural biology</li> <li>1.5.25 Taxonomy</li> <li>1.5.26 Theoretical biology</li> <li>1.5.27 Thermal biology</li> <li>1.5.28 Virology</li> <li>1.5.29 Zoology</li> <li>1.5.99 Other</li> </ul>
1.6 Physical sciences		
	<ul style="list-style-type: none"> <li>1.6.1 Accelerator physics</li> <li>1.6.2 Acoustics</li> <li>1.6.3 Aerosol physics</li> <li>1.6.4 Astrobiology</li> <li>1.6.5 Astronomy</li> <li>1.6.6 Astroparticle physics</li> <li>1.6.7 Astrophysics</li> <li>1.6.8 Atomic</li> <li>1.6.9 Chemical physics</li> <li>1.6.10 Computational physics</li> <li>1.6.11 Condensed matter physics</li> <li>1.6.12 Cryogenics</li> <li>1.6.13 Fluid Mechanics</li> <li>1.6.14 Fusion</li> </ul>	<ul style="list-style-type: none"> <li>1.6.15 High energy physics</li> <li>1.6.16 Mathematical physics</li> <li>1.6.17 Medical physics</li> <li>1.6.18 Molecular physics</li> <li>1.6.19 Nuclear physics</li> <li>1.6.20 Optics</li> <li>1.6.21 Particle physics</li> <li>1.6.22 Physics</li> <li>1.6.23 Planetary science</li> <li>1.6.24 Plasma physics</li> <li>1.6.25 Space science</li> <li>1.6.26 Quantum physics</li> <li>1.6.99 Other</li> </ul>
1.7 Chemical sciences		
	<ul style="list-style-type: none"> <li>1.7.1 Analytical chemistry</li> <li>1.7.2 Chemistry</li> <li>1.7.3 Colloid chemistry</li> <li>1.7.4 Computational chemistry</li> <li>1.7.5 Electrochemistry</li> <li>1.7.6 Inorganic and nuclear chemistry</li> </ul>	<ul style="list-style-type: none"> <li>1.7.7 Mathematical chemistry</li> <li>1.7.8 Organic chemistry</li> <li>1.7.9 Physical chemistry</li> <li>1.7.10 Polymer science</li> <li>1.7.11 Other</li> </ul>
<b>2. Engineering and Technology</b>		
2.1 Civil engineering		
	<ul style="list-style-type: none"> <li>2.1.1 Architecture engineering</li> <li>2.1.2 Civil engineering</li> <li>2.1.3 Civil Protection</li> </ul>	<ul style="list-style-type: none"> <li>2.1.4 Construction/Structural engineering</li> <li>2.1.5 Transport engineering</li> <li>2.1.99 Other</li> </ul>
2.2 Electrical, electronic and information engineering		
	<ul style="list-style-type: none"> <li>2.2.1 Communication engineering and systems</li> <li>2.2.2 Computer hardware and architecture</li> <li>2.2.3 Electrical and electronic engineering</li> </ul>	<ul style="list-style-type: none"> <li>2.2.4 Robotics, Automation and Control Systems</li> <li>2.2.99 Other</li> </ul>
2.3 Mechanical engineering		
	<ul style="list-style-type: none"> <li>2.3.1 Applied mechanics</li> <li>2.3.2 Audio engineering</li> <li>2.3.3 Nuclear related engineering</li> </ul>	<ul style="list-style-type: none"> <li>2.3.4 Reliability analysis</li> <li>2.3.5 Thermodynamics</li> <li>2.3.99 Other</li> </ul>
2.4 Aerospace engineering		
	<ul style="list-style-type: none"> <li>2.4.1 Aeronautical engineering</li> <li>2.4.2 Astronautical engineering</li> <li>2.4.99 Other</li> </ul>	
2.5 Chemical engineering		
	<ul style="list-style-type: none"> <li>2.5.1 Chemical engineering "(plants, products)"</li> <li>2.5.2 Chemical process engineering</li> <li>2.5.99 Other</li> </ul>	
2.6 Materials engineering		

	2.6.1 Ceramics 2.6.2 Coating and films 2.6.3 Composites	2.6.4 Paper and wood 2.6.5 Textiles 2.6.99 Other
2.7 Bioengineering and Biomedical engineering		
	2.7.1 Bioengineering 2.7.2 Biomedical engineering 2.7.99 Other	
2.8 Environmental engineering		
	2.8.1 Energy and fuels 2.8.2 Geological engineering 2.8.3 Geotechnics 2.8.4 Ocean engineering 2.8.5 Mining and mineral processing	2.8.6 Petroleum engineering 2.8.7 Remote sensing 2.8.8 Sea vessels 2.8.99 Other
2.9 Environmental biotechnology		
	2.9.1 Bioremediation 2.9.2 Diagnostic biotechnologies 2.9.99 Other	
2.10 Industrial biotechnology		
	2.10.1 Bio-derived novel materials 2.10.2 Biocatalysis 2.10.3 Bioderived bulk and fine chemicals 2.10.4 Biofuels 2.10.5 Biomaterials	2.10.6 Bioprocessing technologies 2.10.7 Bioproducts 2.10.8 Fermentation 2.10.99 Other
2.11 Nano-technology		
	2.11.1 Nano-materials 2.11.2 Nano-processes 2.11.99 Other	
<b>3. Medical and Health Sciences</b>		
3.1 Basic medicine		
	3.1.1 Anatomy and morphology 3.1.2 Human genetics 3.1.3 Immunology 3.1.4 Medicinal chemistry 3.1.5 Neuroscience	3.1.6 Pathology 3.1.7 Pharmacology and pharmacy 3.1.8 Physiology 3.1.9 Toxicology 3.1.99 Other
3.2 Clinical medicine		
	3.2.1 Allergy 3.2.2 Anaesthesiology 3.2.3 Andrology 3.2.4 Cardiac and Cardiovascular systems 3.2.5 Critical care/Emergency medicine 3.2.6 Dentistry, oral surgery/medicine 3.2.7 Dermatology and venereal diseases 3.2.8 Gastroenterology and hepatology 3.2.9 General and internal medicine 3.2.10 Geriatrics and gerontology 3.2.11 Hematology 3.2.12 Integrative and Complementary medicine 3.2.13 Medical imaging 3.2.14 Nuclear medicine 3.2.15 Obstetrics and gynaecology	3.2.16 Oncology 3.2.17 Ophthalmology 3.2.18 Optometry 3.2.19 Orthopaedics 3.2.20 Otorhinolaryngology 3.2.21 Paediatrics 3.2.22 Peripheral vascular disease 3.2.23 Psychiatry 3.2.24 Radiology 3.2.25 Respiratory systems 3.2.26 Rheumatology 3.2.27 Surgery 3.2.28 Transplantation 3.2.29 Urology and nephrology 3.2.99 Other
3.3 Health sciences		
	3.3.1 Epidemiology 3.3.2 Health care science and services 3.3.3 Health policy and services 3.3.4 Infectious diseases 3.3.5 Medical ethics 3.3.6 Nursing 3.3.7 Nutrition and Dietetics 3.3.8 Occupational health	3.3.9 Parasitology 3.3.10 Public and environmental health 3.3.11 Social biomedical science 3.3.12 Sport and fitness science 3.3.13 Substance abuse 3.3.14 Tropical medicine 3.3.99 Other
3.4 Medical biotechnology		

	3.4.1 Biomedical devices 3.4.2 Health-related biotechnology 3.4.3 Pharmaceutical biotechnology 3.4.4 Biotechnology and medical ethics	3.4.5 Molecular diagnostics 3.4.6 Biophysical manipulation 3.4.99 Other
<b>4. Agricultural Sciences</b>		
4.1 Agriculture, forestry, and fisheries		
	4.1.1 Agriculture 4.1.2 Agronomy, plant breeding, plant protection 4.1.3 Fishery	4.1.4 Forestry 4.1.5 Horticulture and viticulture 4.1.6 Soil science 4.1.99 Other
4.2 Animal and dairy sciences		
	4.2.1 Animal science 4.2.2 Dairy science 4.2.3 Husbandry	4.2.4 Pets 4.2.99 Other
4.3 Veterinary sciences		
	4.3.1 Veterinary anaesthesiology 4.3.2 Veterinary medicine 4.3.3 Veterinary ophthalmology 4.3.4 Veterinary pathobiology	4.3.5 Veterinary radiology 4.3.6 Veterinary reproduction 4.3.7 Veterinary surgery 4.3.99 Other
4.4 Agricultural biotechnology		
	4.4.1 Biomass feedstock production tech. 4.4.2 Biopharming 4.4.3 Diagnostics 4.4.4 Food biotechnology	4.4.5 GM technology "(crops, livestock)" 4.4.6 Livestock cloning 4.4.7 Marker assisted selection 4.4.99 Other
<b>5. Social Sciences</b>		
5.1 Psychology		
	5.1.1 Biological Psychology 5.1.2 Clinical Psychology 5.1.3 Cognitive Psychology 5.1.4 Comparative Psychology 5.1.5 Developmental Psychology 5.1.6 Educational and School Psychology 5.1.7 Evolutionary Psychology	5.1.8 Industrial–organisational Psychology 5.1.9 Personality Psychology 5.1.10 Positive Psychology 5.1.11 Social Psychology 5.1.99 Other
5.2 Economics, finance and business		
	5.2.1 Business and Management 5.2.2 Economics and Econometrics 5.2.3 Finance	5.2.4 Industrial relations 5.2.99 Other
5.3 Educational sciences		
	5.3.1 General Education 5.3.2 Special Education "(learning disabilities)" 5.3.99 Other	
5.4 Sociology		
	5.4.1 Anthropology 5.4.2 Demography 5.4.3 Ethnology 5.4.4 Family studies 5.4.5 Social issues	5.4.6 Social work 5.4.7 Sociology 5.4.8 Women's and gender studies 5.4.99 Other
5.5 Law		
	5.5.1 Canon Law 5.5.2 Civil Law 5.5.3 Comparative Law 5.5.4 Competition Law 5.5.5 Constitutional Law	5.5.6 Criminal Law 5.5.7 Islamic Law 5.5.8 Jewish Law 5.5.9 Jurisprudence "(Philosophy of Law)" 5.5.99 Other
5.6 Political sciences		

	5.6.1 Comparative politics 5.6.2 Empirical data analysis 5.6.3 International relations 5.6.4 Organisation theory 5.6.5 Political economy	5.6.6 Political philosophy 5.6.7 Public administration 5.6.8 Theories of the state 5.6.99 Other
5.7 Social and economic geography		
	5.7.1 Cultural and economic geography 5.7.2 Transport planning	5.7.3 Urban studies 5.7.99 Other
5.8 Media and communications		
	5.8.1 Information science - social 5.8.2 Journalism 5.8.3 Library science	5.8.4 Media and socio-cultural communication 5.8.99 Other
<b>6. Humanities</b>		
6.1 History and Archaeology		
	6.1.1 Archaeology 6.1.2 History "(Prehistory; Ancient; Modern world)" 6.1.99 Other	
6.2 Languages and literature		
	6.2.1 General language studies 6.2.2 General literature studies 6.2.3 Linguistics 6.2.4 Literary theory	6.2.5 Specific languages 6.2.6 Specific literatures 6.2.99 Other
6.3 Philosophy, ethics and religion		
	6.3.1 Ethics 6.3.2 Philosophy of science/technology 6.3.3 Philosophy	6.3.4 Religious studies 6.3.5 Theology 6.3.99 Other
6.4 Arts		
	6.4.1 Architectural design 6.4.2 Folklore studies 6.4.3 Media Studies ( <i>Film, Radio, TV</i> )	6.4.4 Musicology 6.4.5 Performing arts studies 6.4.99 Other
<b>7. Support Activities</b>		
	7.1 Digital Archives	
	7.2 Infrastructure Development	
	7.3 Training/Demonstrations	
	7.4 Miscellaneous	
	7.99 Other	