

# Open Classification of Educational Programs

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00	Generic Programs and Qualifications
01	Agriculture, Aquaculture, Forestry, and Related
02	Architecture, Construction, Engineering, Extraction, Manufacturing
03	Business, Law, and Related
04	Education
05	Healthcare, Welfare, and Veterinary
06	Information Technology (IT)
07	Mathematical and Natural Sciences
08	Social and Behavioral Sciences
09	Arts, Design, Humanities, Media, and Related
10	Other Fields

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00	Generic Programs and Qualifications
001	Basic Programs and Qualifications
002	Literacy and Numeracy
003	Personal Skills
01	Agriculture, Aquaculture, Forestry, and Related
010	Interdisciplinary Programs and Qualifications
011	Agriculture and Related
012	Aquaculture and Related
013	Forestry and Related
02	Architecture, Construction, Engineering, Extraction, Manufacturing
020	Interdisciplinary Programs and Qualifications
021	Architecture, Construction, and Related
022	Engineering and Related
023	Extraction, Mining, Quarrying
024	Manufacturing and Processing
03	Business, Law, and Related
030	Interdisciplinary Programs and Qualifications
031	Accounting, Finance, and Related
032	Advertising, Marketing, Public Relations
033	Law and Related
034	Management, Administration, and Related
035	Wholesale and Retail Trade
04	Education
040	Interdisciplinary Programs and Qualifications
041	Education
05	Healthcare, Welfare, and Veterinary
050	Interdisciplinary Programs and Qualifications
051	Healthcare
052	Welfare
053	Veterinary
06	Information Technology (IT)
060	Interdisciplinary Programs and Qualifications
061	Information Technology (IT)
07	Mathematical and Natural Sciences
070	Interdisciplinary Programs and Qualifications
071	Mathematical Sciences and Related
072	Biological Sciences and Related
073	Environmental Sciences and Related
074	Physical Sciences and Related
08	Social and Behavioral Sciences
080	Interdisciplinary Programs and Qualifications
081	Social and Behavioral Sciences
09	Arts, Design, Humanities, Media, and Related
090	Interdisciplinary Programs and Qualifications
091	Arts, Design, and Related
092	Humanities (excl. Languages)
093	Languages
094	Media and Related
10	Other Fields
100	Interdisciplinary Programs and Qualifications
101	Hospitality, Leisure, and Tourism
102	Personal, Domestic, and Community Services
103	Transportation and Delivery Services
104	Security Services
105	Sports

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00		Generic Programs and Qualifications
001		Basic Programs and Qualifications
0011		<b>Basic Programs and Qualifications</b>
002		Literacy and Numeracy
0021		<b>Literacy and Numeracy</b>
003		Personal Skills
0031		<b>Personal Skills</b>
01		Agriculture, Aquaculture, Forestry, and Related
010		Interdisciplinary Programs and Qualifications
0100		<b>Interdisciplinary Programs and Qualifications</b>
011		Agriculture and Related
0111		<b>Animal and Crop Farming</b>
0112		<b>Horticulture and Related</b>
012		Aquaculture and Related
0121		<b>Aquaculture and Related</b>
013		Forestry and Related
0131		<b>Forestry and Related</b>
02		Architecture, Construction, Engineering, Extraction, Manufacturing
020		Interdisciplinary Programs and Qualifications
0200		<b>Interdisciplinary Programs and Qualifications</b>
021		Architecture, Construction, and Related
0211		<b>Architecture and Planning</b>
0212		<b>Building Construction and Civil Engineering</b>
022		Engineering and Related
0221		<b>Chemical Engineering and Processes</b>
0222		<b>Environmental Protection</b>
0223		<b>Electricity and Energy</b>
0224		<b>Electronics and Automation</b>
0225		<b>Mechanical Engineering and Metal Trades</b>
0226		<b>Transportation Engineering</b>
0229		<b>Engineering and Related, Not Elsewhere Classified</b>
023		Extraction, Mining, Quarrying
0231		<b>Extraction, Mining, Quarrying</b>
024		Manufacturing and Processing
0241		<b>Food and Beverage Processing</b>
0242		<b>Materials</b> (Glass, Paper, Plastic, Wood, and Related)
0243		<b>Textiles</b> (Clothes, Footwear, Leather, and Related)
03		Business, Law, and Related
030		Interdisciplinary Programs and Qualifications
0300		<b>Interdisciplinary Programs and Qualifications</b>
031		Accounting, Finance, and Related
0311		<b>Accounting, Audit, and Taxation</b>
0312		<b>Banking, Finance, and Insurance</b>
032		Advertising, Marketing, Public Relations
0321		<b>Advertising, Marketing, Public Relations</b>
033		Law and Related
0331		<b>Law and Related</b>
034		Management, Administration, and Related
0341		<b>Management and Administration</b>
0342		<b>Secretarial and Office Work</b>
0343		<b>Workplace Skills</b>
035		Wholesale and Retail Trade
0351		<b>Wholesale and Retail Trade</b>
04		Education
040		Interdisciplinary Programs and Qualifications
0400		<b>Interdisciplinary Programs and Qualifications</b>
041		Education
0411		<b>Education Science</b>
0412		<b>Training for Pre-School Teachers</b>
0413		<b>Training for Teachers without Subject Specialisation</b>
0414		<b>Training for Teachers with Subject Specialisation</b>

05		Healthcare, Welfare, and Veterinary
050		Interdisciplinary Programs and Qualifications
0500		<b>Interdisciplinary Programs and Qualifications</b>
051		Healthcare
0511		<b>Dental Studies</b>
0512		<b>Medicine</b>
0513		<b>Nursing and Midwifery</b>
0514		<b>Medical Diagnostic and Treatment Technology</b>
0515		<b>Pharmacy</b>
0516		<b>Therapy and Rehabilitation</b>
0517		<b>Traditional and Complementary Medicine</b>
052		Welfare
0521		<b>Care of the Elderly and Disabled</b>
0522		<b>Child Care and Youth Services</b>
0523		<b>Occupational Health and Safety</b>
0524		<b>Social Work and Counselling</b>
053		Veterinary
0531		<b>Veterinary</b>
06		Information Technology (IT)
060		Interdisciplinary Programs and Qualifications
0600		<b>Interdisciplinary Programs and Qualifications</b>
061		Information Technology (IT)
0611		<b>Computer and Software Use</b>
0612		<b>Database and Network Design and Administration</b>
0613		<b>Software and Game Design and Development</b>
0619		<b>Information Technology (IT), Not Elsewhere Classified</b>
07		Mathematical and Natural Sciences
070		Interdisciplinary Programs and Qualifications
0700		<b>Interdisciplinary Programs and Qualifications</b>
071		Mathematical Sciences and Related
0711		<b>Mathematical Sciences</b>
0712		<b>Statistics and Related</b>
072		Biological Sciences and Related
0721		<b>Biological Sciences</b>
0722		<b>Biochemistry and Related</b>
073		Environmental Sciences and Related
0731		<b>Environmental Sciences</b>
0732		<b>Natural Environments and Wildlife</b>
074		Physical Sciences and Related
0741		<b>Chemistry</b>
0742		<b>Earth Sciences</b>
0743		<b>Physics and Space Sciences</b>
08		Social and Behavioral Sciences
080		Interdisciplinary Programs and Qualifications
0800		<b>Interdisciplinary Programs and Qualifications</b>
081		Social and Behavioral Sciences
0811		<b>Economics and Related</b>
0812		<b>Political Sciences and Related</b>
0813		<b>Psychology and Related</b>
0814		<b>Sociology and Cultural Studies</b>
09		Arts, Design, Humanities, Media, and Related
090		Interdisciplinary Programs and Qualifications
0900		<b>Interdisciplinary Programs and Qualifications</b>
091		Arts, Design, and Related
0911		<b>Design</b>
0912		<b>Fine Arts</b>
0913		<b>Handicrafts</b>
0914		<b>Music and Performing Arts</b>
092		Humanities (excl. Languages)
0921		<b>History and Archeology</b>
0922		<b>Philosophy and Ethics</b>
0923		<b>Religion and Theology</b>
093		Languages
0931		<b>Language Acquisition</b>
0932		<b>Literature and Linguistics</b>
094		Media and Related

	0941	Audio-Video, Digital, and Print Production
	0942	Journalism and Reporting
	0943	Libraries, Museums, and Related
10		Other Fields
	100	Interdisciplinary Programs and Qualifications
	1000	Interdisciplinary Programs and Qualifications
	101	Hospitality, Leisure, and Tourism
	1011	Hospitality, Leisure, and Tourism
	102	Personal, Domestic, and Community Services
	1021	Beauty Services
	1022	Domestic Services
	1023	Community Services
	103	Transportation and Delivery Services
	1031	Transportation and Delivery Services
	104	Security Services
	1041	Civil and Private Protection
	1042	Military and Defence
	105	Sports
	1051	Sports

00	Generic Programs and Qualifications
001	Basic Programs and Qualifications
0011	Basic Programs and Qualifications
	<p>Basic Programs and Qualifications are designed to provide participants with fundamental skills in reading, writing and arithmetic along with an elementary understanding of other subjects such as history, geography, natural science, social science, art and music, and in some cases religious instruction. These programs and qualifications are normally offered at primary and lower secondary levels. Broad, non-specialized programs at upper secondary level are also classified here even if there is some concentration on, for example, humanities, social science, natural science etc. Vocational programs and qualifications are included here only by way of exception.</p> <p>Programs and qualifications include: Basic Programs and Qualifications; Broad (Non-Specialized) Programs and Qualifications; General Programs and Qualifications with No Specific Subject Emphasis; Programs and Qualifications at Primary Level</p> <p>Inclusions: Basic programs and qualifications at upper secondary level (in some countries at lower secondary level) with some emphasis on e.g. humanities, social sciences or natural sciences but still covering other fields of knowledge are included in this field. In some countries such programs or qualifications are offered on a modular basis and should also be classified here.</p> <p>Exclusions: Programs that are considered as general in the program orientation sense (non-vocational) but have a clear emphasis on a detailed, narrow or broad field are excluded from this field and included in one of the broad fields 01-10, depending on the subject covered.</p>
002	Literacy and Numeracy
0021	Literacy and Numeracy
	<p>Literacy and Numeracy are programs or qualifications arranged mainly for adults, designed to teach fundamental skills in reading, writing and arithmetic. The typical age range of participants can be used to distinguish between "Basic Programs and Qualifications" and this field.</p> <p>Programs and qualifications include: Basic Remedial Programs for Youth or Adults; Literacy; Numeracy</p>
003	Personal Skills
0031	Personal Skills
	<p>Personal Skills are defined by reference to the effects on the individual's capacity (mental, social etc.). This field covers personal skills programs not included in "Basic Programs and Qualifications" or "Literacy and Numeracy", giving key competencies and transferable skills.</p> <p>Programs and qualifications include: Argumentation; Assertiveness Training; Communication Skills; Development of Behavioral Capacities; Development of Mental Skills; Job Seeking Programs; Life Orientation Programs; Parenting Courses; Personal Career Planning; Personal Development; Positive Thinking; Presentation Techniques; Problem Solving; Public Speaking; Self Confidence Skills; Self Esteem Skills; Social Competence; Teamwork; Time Management</p> <p>Inclusions: Education and training in leadership in the context of personal development is included here. Education and training related to the workplace or to work assignments is included in this field if it has more to do with personal development than work development. Personal skills courses can be taught at the workplace, but still be classified here based on their content. Programs for people with special needs on how to cope with their daily life are included here.</p> <p>Exclusions: Study of leadership in the context of management is excluded from this group and included in "Management and Administration".</p>
01	Agriculture, Aquaculture, Forestry, and Related
011	Agriculture and Related
0111	Animal and Crop Farming
	<p>Animal and Crop Farming is the study of growing, maintaining and harvesting crops and pastures, and grazing and managing animals. It includes the study of managing and maintaining farms and producing unprocessed plant and animal products.</p> <p>Programs and qualifications include: Agricultural Business (Agribusiness); Agricultural Economics; Agricultural Construction (incl. Orchards Construction, Vineyard Construction); Agricultural Sciences; Agronomy and Crop Science; Animal Breeding (incl. Dog Breeding, Horse Breeding); Animal Husbandry (incl. Horse Husbandry, Poultry Husbandry); Animal Training; Farm Management (Ranch Management); Farm Maintenance; Farming (incl. Pig Farming, Sheep Farming); Fruit Production; Goose Keeping; Growing (incl. Crop Growing, Fruit Growing, Grain Growing, Olive Growing, Rye and Wheat Growing, Sugar Cane Growing, Wine Growing); Irrigation Techniques; Race Horse Care; Soil and Water Technician Programs; Soil Fertility; Soil Science; Vegetable Plantation; Viticulture</p> <p>Inclusions: Study of soil fertility and irrigation techniques are included here. Study of growing intensively managed crops such as fruit and vegetables is included here.</p> <p>Exclusions: Study of wine production is excluded from this field and is included in "Food Processing". Jockeying is excluded from this field and is included in "Sports"</p>
0112	Horticulture and Related
	<p>Horticulture is the study of horticultural technology and management, floriculture, greenhouse methods, nursery management, landscape gardening etc.</p> <p>Programs and qualifications include: Floriculture; Garden Design; Gardening (Landscape Gardening); Green Keeping; Greenhouse Operations; Horticultural Techniques; Nursery Management; Ornamental Plants Production; Sports Ground Maintenance; Turf Cultivation</p> <p>Inclusions: The laying out and construction of urban and domestic parks and gardens is included here. Gardening programs combining floriculture and growing vegetables are included here.</p> <p>Exclusions: Study of growing edible crops (such as wheat, rice, fruit, vegetables etc.) is excluded from this field and included in "Animal and Crop Farming". Study of soil science, soil fertility and irrigation techniques is excluded from this field and included in "Animal and Crop Farming". Study of national park management is excluded from this field and included in "Natural Environments and Wildlife". Study of landscape architecture is excluded from this field and included in "Architecture and Planning".</p>
012	Aquaculture and Related
0121	Aquaculture and Related
	<p>Aquaculture is the study of breeding, rearing and harvesting fish and other seafood.</p> <p>Programs and qualifications include: Aquaculture; Fish Breeding; Fish Farming; Fishery Science and Technology; Fishing (incl. Deep Sea Fishing); Pearl Cultivation; Seafood Farming; Shellfish Breeding</p> <p>Inclusions: Programs for operating fishing boats are included here.</p> <p>Exclusions: Study of industrial processing of fish is excluded from this field and included in "Food Processing".</p>
013	Forestry and Related
0131	Forestry and Related

Forestry is the study of establishing, cultivating, harvesting and managing forests. It includes the study of hunting and trapping. Programs and qualifications include: Charcoal Burning; Forest Keeping; Forest Product Techniques; Hunting and Trapping; Logging; Tree Felling. Exclusions: Study of national park management is excluded from this field and included in "Natural Environments and Wildlife". Timber technology (sawmill production etc.) is excluded from this field and included in "Materials (Glass, Paper, Plastic, Wood, and Related)".

02  
021  
0211 **Architecture, Construction, Engineering, Extraction, Manufacturing  
Architecture, Construction, and Related  
Architecture and Planning**

Architecture is the study of the art, science and techniques of building design. It encompasses both utilitarian ends - such as the soundness of the structure and the functional and economic efficiency of the building - and aesthetic considerations. Planning is the study of the regulated growth and improvement of towns in both functional and aesthetical points of view.

Programs and qualifications include: Architectural Planning; Building Architecture; Building Design; Cartography (Topography); Community Development; Community Planning; Landscape Architecture; Landscape Design; Rural Development; Spatial Design; Structural Architecture; Surveying (Land Surveying); Urban Design; Urban Planning (City Planning, Town Planning); Urban Studies

Exclusions: Study of interior design is excluded from this field and included in "Design". Geomatics is excluded from this field and included in "Earth Sciences". The laying out and construction of parks and gardens is excluded from this field and included in "Horticulture and Related".

0212 **Building Construction and Civil Engineering**

Building Construction is the study of the science, technology and techniques of assembling, erecting and maintaining public, commercial, industrial and residential structures and their fittings. Civil Engineering is the study of planning, designing, testing and directing the construction of large scale buildings and structures, including systems for transport, water supply, sewage etc.

Programs and qualifications include: Bricklaying; Brickwork; Bridge Construction; Building Construction; Building Engineering; Building Maintenance; Building Metalwork; Building Renovation; Building Sanitation; Building Technology; Building Ventilation; Carpentry and Joinery (Building); Civil Engineering; Construction Engineering; Construction Equipment; Construction Plant Operation; Construction Physics; Demolition; Dock and Harbour Engineering; Excavation Engineering; Floor and Wall Tiling; Floor Covering; Glazing; House Building; Industrial Abseiling (Commercial Abseiling); Insulation; Irrigation and Drainage; Masonry (Stonemasonry); Painting and Wall Covering; Plastering (Building); Plumbing and Pipefitting; Road Building; Roof Fixing; Roofing; Scaffolding Work; Structural Engineering; Technical Drawing; Water Engineering and Technology; Water Supply and Sewerage Engineering

Exclusions: Installation of electricity is excluded from this field and included in "Electricity and Energy". Similarly, installing and repairing of heating, air-conditioning and refrigeration equipment is excluded from this field and included in "Electricity and Energy".

022  
0221 **Engineering and Related  
Chemical Engineering and Processes**

Chemical Engineering and Processes is the study of planning, designing, and developing products and processes where chemical and physical changes occur. It includes designing chemical plants and control systems.

Programs and qualifications include: Chemical Engineering; Chemical Process Engineering; Laboratory Assistant/Technician Training; Laboratory Technology; Oil/Gas/Petrochemicals Processing; Oil Refining; Plant and Machine Operation (Processing); Process Technology

Inclusions: Laboratory technology is included here if emphasis is not given to a specific application.

Exclusions: Laboratory technology is excluded from this field if emphasis is given to a specific application (biological, medical, etc.) and is included under the appropriate field. Biotechnology is excluded from this field and included in "Biochemistry and Related". Programs and qualifications with emphasis on the production of a specific material are excluded from this field (e.g. studies with emphasis on paper processing should be included in "Materials (Glass, Paper, Plastic, Wood, and Related)").

0222 **Environmental Protection**

Environmental Protection is the study of processes in order to minimise discharge and waste and avoid pollution. It includes programs dealing with control of water, air, soil etc.

Programs and qualifications include: Pollution Control (incl. Air, Noise, Soil, Space, Water); Ecological Technology (Ecotechnology); Energy Efficiency; Environmental Control; Environmental Engineering; Environmental Protection Technology; Industrial Discharge Control; Recycling

Exclusions: Programs and qualifications dealing with hygienic standards in food, water etc. are excluded from this field and included in "Community Services". Construction related to waste and water management is excluded from this field and included in "Building Construction and Civil Engineering".

0223 **Electricity and Energy**

Electricity is the study of installing, maintaining, repairing and diagnosing faults in electrical wiring and related equipment in domestic, commercial and industrial establishments. Installation and maintenance of overhead and underground electrical power distribution networks is included. Energy is the study of energy generation.

Programs and qualifications include: Climate Engineering; Electric Power Engineering; Electrical Appliances Repairing; Electrical Engineering; Electrical Fitting; Electrical Trades (incl. Installation, Maintenance, and Repair); Energy Studies (incl. Hydraulic Energy, Nuclear, Solar, Thermal); Gas Distribution; Heating, Air Conditioning, Ventilation Trades (incl. Installation, Maintenance, and Repair); Power Line Installation and Maintenance; Refrigeration; Wind Turbines

Inclusions: The study of installing, diagnosing faults in and repairing heating, air-conditioning and refrigeration equipment is included here.

Exclusions: Study of vehicle electrical systems is excluded from this field and included in "Transportation Engineering".

0224 **Electronics and Automation**

Electronics and Automation is the study of planning, designing, developing maintaining and monitoring electronic equipment, machinery and systems. It includes designing computers and equipment for communication.

Programs and qualifications include: Automation; Broadcasting Electronics; Communication Systems; Communications Equipment (incl. Installation, Maintenance, and Repair); Computer Engineering; Computer Hardware Architecture; Computer Hardware Design; Computer Hardware Security; Computer Maintenance and Repair; Control Engineering; Data Processing Technology; Digital Technology; Domestic Appliance Repairing; Electronic Engineering; Electronic Equipment Servicing; Network Technology; Processor Design (or CPU Design); Robotics; Telecommunications

Exclusions: Computer Science is excluded from this field and included under "Software and Game Design and Development".

0225 **Mechanical Engineering and Metal Trades**

Mechanical Engineering and Metal Trades is the study of planning, designing, developing, producing, maintaining and monitoring machines, mechanical plants and systems and metal products. It includes designing and maintaining machines which produce goods and services. The focus of study in this field is machines, mechanical systems and metal products.



Programs and qualifications include: Bicycle Production; Bicycle Repair; Boilermaking and Welding; Gunsmithing; Hydraulics; Locksmithing and Safe Repairing; Mechanical Engineering; Mechanical Trades; Metal Casting and Patternmaking; Metal Fitting, Turning and Machining; Metal Trades; Metallurgical Engineering; Metallurgical Technology; Micromechanics; Precision Mechanics; Sheet Metal Working; Steel Production; Tool and Die Making; Watchmaking; Welding

Exclusions: The study of motor vehicle mechanics and engineering is excluded from this field and included in "Transportation Engineering".

0226 **Transportation Engineering**

Transportation Engineering is the study of designing, developing, producing, maintaining, diagnosing faults in, repairing and servicing motor vehicles, including earth moving equipment and agriculture machines, ships, trains and aircraft. Typical is the combination of studies in both metal structures and motors.

Programs and qualifications include: Aeronautical Engineering; Aerospace Engineering; Agriculture Machinery Mechanics; Aircraft Engineering; Aircraft Maintenance; Automotive Electrical Systems; Automotive Engineering; Avionics; Coachwork; Helicopter Construction; Marine Construction; Marine Engineering; Maritime Engineering; Motorcycle Engineering; Motorcycle Mechanics; Naval Engineering; Panel Beating; Shipbuilding; Train Repair and Maintenance; Vehicle and Motor Engineering; Vehicle Building; Vehicle Diagnostics; Vehicle Electrical Systems; Vehicle Mechanics; Vehicle Painting; Vehicle Repairing; Vehicle Trimming; Vehicle Varnishers/Sprayers

Inclusions: Study of vehicle electrical systems is included here.

Exclusions: Study of producing and repairing non-motorized vehicles is excluded from this field and included in "Mechanical Engineering and Metal Trades" (e.g. bicycles) or "Materials (Glass, Paper, Plastic, Wood, and Related)" (e.g. non-motor boats).

0229 **Engineering and Related, Not Elsewhere Classified**

Engineering studies not covered by other fields are classified here.

Programs and qualifications include: Nanotechnology

023 **Extraction, Mining, Quarrying**

0231 **Extraction, Mining, Quarrying**

Extraction, Mining, Quarrying is the study of assessing, planning, developing, and directing the extraction of minerals, oil and gas from the earth.

Programs and qualifications include: Coal Mining; Drilling; Mineral Technology; Mining Engineering; Mining of Minerals; Mining Technology; Oil and Gas Drilling; Oil and Gas Extraction; Quarry Supervision; Raw Materials Extraction

Exclusions: Study of metallurgical engineering is excluded from this field and included in "Mechanical Engineering and Metal Trades". Study of geology is excluded from this field and included in "Earth Sciences".

024 **Manufacturing and Processing**

0241 **Food and Beverage Processing**

Food and Beverage Processing is the study of processing and packaging of food and beverages, and the equipment and procedures used in the production and distribution of foods.

Programs and qualifications include: Baking (Industrial); Brewing (incl. Beer Brewing); Butchery; Cheese Production; Confectionery; Dairy Foods; Distilling; Food and Drink Processing; Food Hygiene; Food Preparation; Food Preservation; Food Processing Industry; Food Science and Technology; Meat Processing; Pastry Cooking; Tobacco Processing; Wine Production; Wine Science (incl. Wine Storing/Maturing)

Inclusions: Study of food handling and food hygiene is included here.

Exclusions: Restaurant and catering are excluded from this field and included in "Hospitality, Leisure, and Tourism". Nutrition science is excluded from this field and included in "Biological Sciences and Related".

0242 **Materials (Glass, Paper, Plastic, Wood, and Related)**

Materials is the study of the manufacturing of products in glass, paper, plastic, wood or other materials like stone, clay, artificial materials etc. Programs and qualifications included in this field have more to do with a specific material than general technical knowledge.

Programs and qualifications include: Boat Building (Non-Motor); Cabinet Making; Cane/Willow/Bamboo Work; Carpentry (Furniture); Ceramics (Industrial); Furniture Crafts; Furniture Making; Glass Working (Industrial); Glass Production; Industrial Diamond Production; Paper Manufacturing and Processing; Plastic Manufacturing; Rubber Processing; Timber Technology; Wood Machining and Turning; Wood Technology; Woodwork Trades

Exclusions: Study of metal work is excluded from this field and included in "Mechanical Engineering and Metal Trades". Study of building carpentry and joinery is excluded from this field and included in "Building Construction and Civil Engineering". Study of chemical processing in general is excluded from this field and included in "Chemical Engineering and Processes". Study of printing and bookbinding is excluded from this field and included in "Audio-Video, Digital, and Print Production". Handicrafts programs (glass arts and crafts, woodcarving etc) are excluded from this field and included in "Handicrafts".

0243 **Textiles (Clothes, Footwear, Leather, and Related)**

Textiles is the study of the manufacture of textiles, textile and leather products, clothing and related items, shoes and other forms of footwear.

Programs and qualifications include: Clothing Industry; Clothing Trades; Dressmaking; Footwear Making; Fur Making; Garment Production; Industrial Embroidery and Needlework; Industrial Knitting; Industrial Sewing; Industrial Weaving; Leather Goods Production; Leather Processing; Leather Production; Leather Trades; Saddlery; Repairing (Leather Repairing, Shoe Repairing, etc.); Shoemaking; Soft Furnishings; Spinning; Tailoring (Custom Tailoring); Textile Techniques; Textile Trades; Upholstery; Wool Science

Exclusions: Handicrafts studies (weaving, embroidery etc.) are excluded from this field and included in "Handicrafts".

03 **Business, Law, and Related**

031 **Accounting, Finance, and Related**

0311 **Accounting, Audit, and Taxation**

Accounting, Audit, and Taxation is the study of maintaining, auditing and recording financial transactions.

Programs and qualifications include: Accounting; Auditing; Bookkeeping; Financial Accounting; Management Accounting; Tax Accounting; Tax Management

Exclusions: Study of tax laws is excluded from this field and included in "Law and Related".

0312 **Banking, Finance, and Insurance**

Banking, Finance, and Insurance is the study of planning, directing, organizing and controlling financial activities and services. It includes the control and monitoring of the financial resources of organizations, institutions and individuals, and the provision of financial services at the corporate and individual level.

Programs and qualifications include: Bank Teller Studies; Banking; Corporate Finance; Finance Theory; Financial Institutions; Financial Management;

Financial Markets; Financial Technology (or FinTech, incl. Cryptocurrency); Insurance (incl. Pension Insurance, Social Insurance); Investing; Investment Analysis; Investment Management; Investments and Securities; Islamic Banking; Personal Finance; Public Finance; Stock-Broking; Venture Capital; Wealth Management  
Exclusions: Study of actuarial science is excluded from this field and included in "Statistics and Related".

032  
0321 **Advertising, Marketing, Public Relations**  
**Advertising, Marketing, Public Relations**

Advertising, Marketing, Public Relations is the study of promoting the exchange processes of goods and services between organizations and/or individuals, and the study of consumer behavior and requirements. It includes the study of the role of product development, pricing, distribution, promotion and sales in order to maximise business performance.  
Programs and qualifications include: Advertising; Branding; Consumer Behavior; Customer Relationship Management; Destination Marketing; Digital Marketing (incl. Search Engine Optimization, Targeting, etc.); Marketing; Marketing Communications (incl. Advertising, Promotion, etc.); Marketing Research (incl. Market Research, etc.); Merchandising; Naming; Pricing; Public Relations; Social Media Marketing

033  
0331 **Law and Related**  
**Law and Related**

Law is the study of the principles and procedures for formally maintaining social order, including training for legal professions such as advocate or training for the judicial bench.  
Programs and qualifications include: Administrative Law; Animal Law; Civil Law; Commercial Law (Trade Law); Common Law; Constitutional Law; Consumer Protection; Criminal Law; Energy Law; Environmental Law (incl. Air Quality Law, Water Quality Law); Family Law; Financial Regulation; History of Law; Indigenous Law; Intellectual Property; International Law; Information Technology Law (Cyberlaw); Labor Law; Legal Practice; Legal Studies; Legal Theory (Jurisprudence); Media Law; Notary Practice; Paralegal Studies; Private Law; Property Law; Religious Law (incl. Islamic Sharia); Space Law; Tax Law  
Exclusions: Court reporting programmes and legal secretary programmes are excluded from this field and included in "Secretarial and Office Work". Police studies are excluded from this field and included in "Private Protection".

034  
0341 **Management, Administration, and Related**  
**Management and Administration**

Management and Administration is the study of planning, directing and operating the functions and activities of organizations and institutions. Programs in management also including administration, economics, finance etc. are included here if emphasis is given to management and administration.  
Programs and qualifications include: Business Administration (MBA/DBA Programs); Change Management; Employment Management; Entrepreneurship; Event Management; Human Resource Management (incl. Compensation and Benefits, Performance Appraisal, Personnel Administration, Recruitment, Training and Development, etc.); Innovation Management; Logistics Management; Management in Education; Management in Healthcare; Management of Cultural Institutions; Management of Public Institutions; Management Science; Operations Management; Organizational Behavior; Organizational Culture (or Corporate Culture); Organizational Learning (or Training and Development); Organizational Psychology; Organizational Theory; Project Management; Public Administration; Quality Management; Supply Chain Management; Team Management  
Inclusions: Study of leadership in the context of management is included here.  
Exclusions: Training in leadership in the context of personal development is excluded from this field and included in "Personal Skills". Study of administration in the meaning of office work is excluded from this field and included in "Secretarial and Office Work".

0342 **Secretarial and Office Work**

Secretarial and Office Work is the study of administrative procedures and practices, office technology and clerical, shorthand and keyboard skills. Specialized secretarial programs (bilingual, medical, law, accounting etc) are included if the program has secretarial work as its objective, rather than work as specialized assistants.  
Programs and qualifications include: Assistant Training; Business Correspondence; Clerical Programs; Court Reporting; Data Entry (Information Processing); Management Support Services (Administrative Services, Secretarial Services); Office Administration (Office Management); Office Equipment Operating; Receptionist Training; Secretary Programs (incl. Legal Secretary Programs, Medical Secretary Programs); Switchboard Operating; Typing Skills  
Inclusions: Broad secretarial programs comprising among other things computer courses are included here.  
Exclusions: Separate programs or qualifications in using a specific computer software are excluded from this field and included under "Computer and Software Use". Office management is excluded from this field and included in "Management and Administration". Hotel receptionist programs are excluded from this field and included in "Hospitality, Leisure, and Tourism".

0343 **Workplace Skills**

Workplace Skills is the study of the structure and function of working life. It comprises programmes, mainly given as staff training, related to the workplace and to work assignments.  
Programs and qualifications include: Clients' Needs; Company Knowledge; Customer Service Training; Onboarding Courses (Introduction to Work); Organization at Work; Quality Assurance; Trade Union Courses (General); Work Development  
Inclusions: Staff training related to the workplace or work assignments is included here.  
Exclusions: Training related to the workplace or work assignments is excluded from this field if it has more to do with personal development than work development and is included in "Personal Skills". Staff training which can be classified to any other field is excluded from this field and included in the appropriate field (e.g. quality courses should, if technical, be included in the fields under "Engineering and Related"). Programs in work environment should be included in "Occupational Health and Safety". Programs, mostly at tertiary level, dealing with working life in general in terms of the labor market, the social partners, industrial psychology etc. are excluded from this field and included in "Social and Behavioral Sciences".

035  
0351 **Wholesale and Retail Trade**  
**Wholesale and Retail Trade**

Wholesale and Retail Trade is the study of buying and selling goods and services, including stock management, pricing practices, loss prevention, sales systems and procedures. It includes the study of the workings and current trends of the wholesale and retail industries. Selling of buildings and properties is also included.  
Programs and qualifications include: Auctioneering; Buying and Selling; Consumer Services; Demonstration Techniques; Negotiation; Property Sales; Procurement; Purchasing; Real Estate Business; Retailing; Sales; Sales Representative Training; Stock-Keeping; Wholesaling  
Inclusions: Study of buying and selling buildings and properties is included here.

04 **Education**

041	<b>Education</b>	
0411	<b>Education Science</b>	<p>Education Science is the study of the learning process and the theories, methods and techniques of imparting knowledge to others.</p> <p>Programs and qualifications include: Curriculum Studies; Didactics; Distance Education; Educational Assessment and Measurement; Educational Evaluation and Research; Pedagogical Science</p> <p>Exclusions: Teacher training programs which combine education science with the practice of teaching are excluded from this field and included in one of the fields for teacher training.</p>
0412	<b>Training for Pre-School Teachers</b>	<p>Training for Pre-School Teachers is the study of the theories, methods and practice of teaching very young children up to 7 years of age within formal school settings at pre-primary or early childhood educational development levels.</p> <p>Programs and qualifications include: Early Childhood Teaching (within Formal School Settings); Pre-Primary Teacher Training</p> <p>Exclusions: Training in caring for children outside formal school settings is excluded from this field and included in "Child Care and Youth Services".</p>
0413	<b>Training for Teachers without Subject Specialisation</b>	<p>Training for Teachers without Subject Specialization is the study of the theories, methods and practice of providing children between approximately 5 and 15 years of age with the fundamental skills in reading, writing and mathematics along with an elementary understanding of other subjects such as history, geography, social science etc. and laying the foundation for lifelong learning. Subject specialization is stressed less than in "Teacher Training with Subject Specialization". The study of teaching children with special needs is included in this field, likewise the study of teaching adults fundamental reading and writing skills and teaching immigrants these types of skills in their home or first language.</p> <p>Programs and qualifications include: Adult Literacy and Numeracy Teacher Training; Class Teacher Training; Elementary Teacher Training; Indigenous Teacher Training; Teaching Children with Special Needs</p> <p>Inclusions: The study of teaching adults basic literacy and numeracy skills is included here. Teaching Assistance programs are also included here.</p> <p>Exclusions: Teacher training with subject specialization even if intended for the teaching of children in primary or lower secondary education is excluded from this field and included in "Teacher Training with Subject Specialization".</p>
0414	<b>Training for Teachers with Subject Specialisation</b>	<p>Training for Teachers with Subject Specialization is the study of the theories, methods and practice of teaching a specific subject, mostly at secondary or higher levels of education. Programs and qualifications included in this field often comprise both studies as well as the subject/subjects that are going to be taught.</p> <p>Programs and qualifications include:</p> <ul style="list-style-type: none"> <li>Teacher Training - Arts and Crafts;</li> <li>Teacher Training - Commercial Subjects;</li> <li>Teacher Training - Music;</li> <li>Teacher Training - Nursing;</li> <li>Teacher Training - Physical Training;</li> <li>Teacher Training - Foreign (Second) Languages;</li> <li>Teacher Training - Specific Theoretical Subjects (e.g. Mathematics, History);</li> <li>Teacher Training - Technical Subjects;</li> <li>Teacher Training - Vocational Subjects;</li> <li>Training of Driving Instructors;</li> <li>Training of Trainers</li> </ul> <p>Inclusions: Teacher training courses for university teachers, instructors of workplace and working life skills and in practical and artistic subjects are included here.</p> <p>Exclusions: Training of sports trainers is excluded from this field and included in "Sports".</p>
05	<b>Healthcare, Welfare, and Veterinary</b>	
051	<b>Healthcare</b>	
0511	<b>Dental Studies</b>	<p>Dental Studies are the study of diagnosing, treating and preventing diseases and abnormalities of the teeth and gums. It includes the study of designing, making and repairing dental prostheses and orthodontic appliances. It also includes the study of providing assistance to dentists.</p> <p>Programs and qualifications include: Clinical Dentistry; Dental Assisting; Dental Hygiene; Dental Laboratory Technology; Dental Nursing; Dental Science; Dental Surgery; Dental Technology; Dentistry; Odontology; Oral Surgery; Orthodontics</p> <p>Inclusions: Study of public dental health is included here.</p>
0512	<b>Medicine</b>	<p>Medicine is the study of the principles and procedures used in preventing, diagnosing, caring for and treating illness, disease and injury in humans and the maintenance of general health. Principally, this field consists of training of physicians/doctors.</p> <p>Programs and qualifications include: Anaesthetics; Anatomy; Audiology (Hearing Sciences); Bacteriology; Cardiology; Cytology; Dermatology; Epidemiology; Forensic Medicine; Forensic Pathology; General Medicine; Gerontology; Gynecology; Hematology; Histology; Immunology; Internal Medicine; Medical Science; Medical Training; Naturopathic Medicine; Neurology; Obstetrics; Oncology; Ophthalmology; Pathology; Pediatrics; Physiology; Plastic Surgery; Preventive and Social Medicine; Psychiatry; Stomatology; Surgery; Training of Doctors (Training of Physicians)</p>
0513	<b>Nursing and Midwifery</b>	<p>Nursing is the study of providing health care for the sick, disabled or infirm and assisting physicians and other medical and health professionals diagnose and treat patients. The focus of qualifications in nursing is maintaining and caring for the health of patients during illness and rehabilitation. It includes medical care of the elderly and disabled. Midwifery is the study of providing care to childbearing women during pregnancy, labor and birth and during the postpartum period. It also includes caring for the new born and assisting the mother with breast feeding.</p> <p>Programs and qualifications include: Assistant Nursing; Basic Nursing; Community Nursing; General Nursing; Gerontological Services; Medical Care of the Elderly; Medical Care of the Disabled; Medical Care Programs; Infant Hygiene (Nursing); Midwifery; Nursing Aide/Orderly Training; Psychiatric Nursing; Specialized Nursing</p> <p>Inclusions: Care programs comprising both medical care and social care e.g. for the elderly, are included here.</p> <p>Exclusions: Veterinary nursing is excluded from this field and is included in "Veterinary". Dental nursing is excluded from this field and is included in "Dental Studies". Non-medical care of children is excluded from this field and included in "Child Care and Youth Services". Non-medical care of the elderly is excluded from this field and included in "Care of the Elderly and Disabled".</p>

0514	<b>Medical Diagnostic and Treatment Technology</b>	<p>Medical Diagnostic and Treatment Technology is the study of a wide range of technologies used for diagnosing and treating diseases and handicaps. Programs and qualifications include: Ambulance Services; Ambulance Technology; Emergency Paramedical Technology; Forensic Medicine Technology; Hearing Aid Technology; Medical Laboratory Technology; Nuclear Medicine Technology; Optical Technology (Optical Prosthetics); Prosthetic Technology (Auditory Prosthetics, Orthopedic Prosthetics); Radiography; Radiology Technology; Radiotherapy; X-Ray Technology</p> <p>Exclusions: Study of laboratory technology is excluded from this field if emphasis is not given to medical laboratory technology. General laboratory technology is included in "Chemical Engineering and Processes". Laboratory technology where emphasis is given to other specific applications (biology, chemistry, physics etc) is included in the appropriate field. Study of dental technology is excluded from this field and included in "Dental Studies".</p>
0515	<b>Pharmacy</b>	<p>Pharmacy is the study of drugs and their effects on humans. It includes their preparation, dispensing and administration.</p> <p>Programs and qualifications include: Dispensing Pharmacy; Pharmacy</p> <p>Exclusions: Study of pharmacology is excluded from this field and included in "Biological Sciences".</p>
0516	<b>Therapy and Rehabilitation</b>	<p>Therapy and Rehabilitation is the study of restoring normal physical conditions to those incapacitated by temporary or permanent disability.</p> <p>Programs and qualifications include: Chiropractice; Dietician Programs; Medical Massage; Mental Health Services; Nutrition (Dietetics); Occupational Therapy; Optometry; Osteopathy; Physiotherapy; Reflexology; Rehabilitation (Vocational Rehabilitation); Speech Therapy</p> <p>Exclusions: Study of psychotherapy is excluded from this field and included in "Psychology and Related". Study of nutrition science is excluded from this field and included in "Biological and Related Sciences".</p>
0517	<b>Traditional and Complementary Medicine</b>	<p>Traditional and Complementary Medicine is the study of alternative medicine.</p> <p>Programs and qualifications include: Acupuncture; Aromatherapy; Herbalism; Herbology; Holistic Medicine; Homeopathic Medicine; Traditional Medicine (incl. Ayurvedic Medicine, Chinese Medicine, Oriental Medicine, etc.)</p>
052	<b>Welfare</b>	
0521	<b>Care of the Elderly and Disabled</b>	<p>Care of the Elderly and Disabled adults is the study of non-medical care of the elderly and disabled.</p> <p>Programs and qualifications include: Care of the Elderly (Non-Medical); Care of the Disabled (Non-Medical); Personal Care of Adults</p> <p>Exclusions: Study of medical care of the elderly and disabled is excluded from this field and included in "Nursing and Midwifery".</p>
0522	<b>Child Care and Youth Services</b>	<p>Child Care and Youth Services are the study of the development and non-medical care of children and youths. It includes the study of recreation and leisure activities as a social service for school children and young adults.</p> <p>Programs and qualifications include: Child Care; Child Recreation Programs; Day Care; Care of the Disabled Children (Non-Medical); Youth Recreation Programs; Youth Services; Youth Worker Training</p> <p>Exclusions: Study of early childhood education in pre-schools is excluded from this field and included in "Training for Pre-School Teachers". Study of medical care of children is excluded from this field and included in "Nursing and Midwifery".</p>
0523	<b>Occupational Health and Safety</b>	<p>Occupational Health and Safety is the study of recognising, evaluating and controlling environmental factors associated with the workplace.</p> <p>Programs and qualifications include: Ergonomics; Health and Safety in the Workplace; Industrial Hygiene; Industrial Welfare; Labor Protection; Labor Security; Labor Welfare (Job Safety, Labor Safety); Occupational Health; Occupational Safety; Stress Management; Work Environment</p> <p>Exclusions: Study of vocational rehabilitation and occupational therapy is excluded from this field and included in "Therapy and Rehabilitation". Study of labor law is excluded from this field and included in "Law and Related". Study of ergonomics is excluded from this field if emphasis is given to technical aspects and is included in the appropriate field under "Engineering and Related".</p>
0524	<b>Social Work and Counselling</b>	<p>Social Work and Counselling is the study of the welfare needs of communities, specific groups and individuals and the appropriate ways of meeting these needs. The focus is on social welfare with emphasis on social policy and practice.</p> <p>Programs and qualifications include: Alcohol and Drug Abuse Counselling; Alcohol, Tobacco, Drugs (Knowledge about); Career Advising; Counselling; Crisis Support; Family and Marriage Counselling; Mobbing and Maltreatment (Knowledge about); Parole Officer Training; Probation Officer Training; Social Care; Social Policy; Social Practice; Social Theory (Applied); Social Work (Welfare); Vocational Counselling; Vocational Guidance</p> <p>Exclusions: Study of sociology and social science is excluded from this field and included in "Sociology and Cultural Studies". Studies combining medical care and social care (e.g. for the elderly) are excluded from this field and included in "Nursing and Midwifery".</p>
053	<b>Veterinary</b>	
0531	<b>Veterinary</b>	<p>Veterinary is the study of preventing, diagnosing and treating diseases and injuries in animals, and their general care. The study of caring for sick, injured and infirm animals undergoing treatment in veterinary clinics is included. It also includes the study of providing assistance to veterinary scientists.</p> <p>Programs and qualifications include: Animal Care (Medical); Animal Reproduction (Science); Artificial Insemination (of Animals); Veterinary Assisting; Veterinary Medicine; Veterinary Nursing; Veterinary Science</p> <p>Inclusions: The science of animal reproduction is included here.</p> <p>Exclusions: Study of animal breeding is excluded from this field and included in "Animal and Crop Farming".</p>
06	<b>Information Technology (IT)</b>	
061	<b>Information Technology (IT)</b>	
0611	<b>Computer and Software Use</b>	<p>Computer and Software Use is the study of using computers and computer software and applications for different purposes. These programs are generally of short duration.</p> <p>Programs and qualifications include: Computer Media Applications; Use of Computer; Use of Internet; Use of Software</p>

0612	Database and Network Design and Administration	<p>Database and Network Design and Administration is the study of the design, maintenance and integration of software applications. Computer media applications are included.</p> <p>Programs and qualifications include: Computer Administration; Computer Network Installation and Maintenance; Database Administration; Database Architecture; Database Design; Database Security; Information Technology Administration; Information Technology Security (Cybersecurity); Information Technology Support; Network Administration; Network Architecture; Network Design; Network Security</p>
0613	Software and Game Design and Development	<p>Software and Game Design and Development is the study of the design and development of computer systems and computing environments.</p> <p>Programs and qualifications include: Computer Hacking; Computer Programming; Computer Science (Informatics); Computer Systems Analysis; Computer Systems Design; Computer Systems Development; Game Design (incl. Level Design); Game Development; Mobile Application Development (incl. Android Development, iOS Development, etc.); Operating Systems; Programming Languages (incl. C++, Java, JavaScript, Kotlin, PHP, Python); Software Architecture; Software Design (incl. User Experience Design, User Interface Design); Software Development (incl. Back-End Development, Front-End Development, Full-Stack Development); Software Testing; Web Design; Web Development</p> <p>Exclusions: Computer engineering (hardware) is excluded from this field and included in "Electronics and Automation". Programs and qualifications in using computer applications are excluded from this field and included in "Computer and Software Use". Database and network design and administration is excluded from this field and included in "Database and Network Design and Administration".</p>
0619	Information Technology (IT), Not Elsewhere Classified	<p>Information technology studies not covered by other fields are classified here.</p> <p>Programs and qualifications include: Agile Methodologies (incl. Scrum); Artificial Intelligence (AI); Augmented Reality (AR); Business Intelligence; Cloud Computing; Computer Vision; Data Mining; e-Commerce; Internet of Things (IoT); IT Project Management; Machine Learning; Natural Language Processing; Neural Networks (Artificial Neural Networks); Product Management; Quantum Computing; Self-Driving Cars; Startup Incubation/Acceleration Programs; Virtual Reality (VR)</p>
07	Mathematical and Natural Sciences	
071	Mathematical Sciences and Related	
0711	Mathematical Sciences	<p>Mathematics is the study of abstract deductive systems. It includes algebra, arithmetic, geometry, real and complex analysis and pure and applied mathematics.</p> <p>Programs and qualifications include: Algebra; Applied Mathematics; Data Analysis; Geometry (incl. Stereometry, Trigonometry); Numerical Analysis; Operational Research; Pure Mathematics</p>
0712	Statistics and Related	<p>Statistics is the study of collecting, describing, arranging and analysing numerical data. The study of probability theory and actuarial science is included.</p> <p>Programs and qualifications include: Actuarial Science; Applied Statistics; Mathematical Statistics (Theoretical Statistics); Probability Theory; Survey Design; Survey Sampling</p> <p>Inclusions: Study of mathematical (theoretical) statistics is included here.</p> <p>Exclusions: Demography/population studies is excluded from this field and included in "Sociology and Cultural Studies".</p>
072	Biological Sciences and Related	
0721	Biological Sciences	<p>Biology is the study of the structure, function, reproduction, growth, evolution and behavior of all living organisms.</p> <p>Programs and qualifications include: Bioinformatics; Biology; Biomechanics; Biometrics; Biophysics; Biostatistics; Botany; Cell Biology; Entomology; Genetics; Limnology; Microbiology; Molecular Biology; Mycology; Ornithology; Parasitology; Zoology</p> <p>Exclusions: Study of environmental sciences, which is the study of the relation between living organisms and the environment, is excluded from this field and included in "Environmental Sciences". Study of chemical processes in living organisms (biochemistry, toxicology, pharmacology etc.) is excluded from this field and included in "Biochemistry and Related".</p>
0722	Biochemistry and Related	<p>Biochemistry, sometimes called Biological Chemistry, is the study of the chemistry of living organisms, including but not limited to, living matter.</p> <p>Programs and qualifications include: Biological Chemistry; Biotechnology; Cell Technology; Forensic Sciences; Genetic Code Studies (DNA/RNA Studies); Genetic Engineering; Pharmacology; Tissue Culture Technology; Toxicology; Virology</p> <p>Inclusions: Biotechnology is included here.</p>
073	Environmental Sciences and Related	
0731	Environmental Sciences	<p>Environmental Sciences are the study of organisms in relation to one another and to the environment.</p> <p>Programs and qualifications include: Ecology; Environmental Science</p> <p>Exclusions: The study of biology and toxicology are excluded from this field and included under "Biological Sciences and Related".</p>
0732	Natural Environments and Wildlife	<p>Natural Environments and Wildlife is the study of the relationships between living organisms in natural environments in order to protect nature and wildlife. It includes the study of establishing and maintaining national parks in order to preserve their original natural state.</p> <p>Programs and qualifications include: Conservation Management; National Parks Management; Nature Conservation; Wildlife Management; Wildlife Ranger Studies</p> <p>Exclusions: Study of agriculture, horticulture and forestry are excluded from this field and included in some of the fields under "Agriculture, Aquaculture, Forestry, and Related". Study of hunting and trapping is excluded from this field and included in "Forestry and Related".</p>
074	Physical Sciences and Related	
0741	Chemistry	<p>Chemistry is the study of substances and their elements and how they react when combined.</p> <p>Programs and qualifications include: Analytical Chemistry (incl. Calorimetry, Chromatography, Spectroscopy); Food Chemistry; Inorganic Chemistry;</p>

		Organic Chemistry (incl. Petrochemistry, Polymer Chemistry); Nuclear Chemistry; Physical Chemistry (incl. Cryochemistry, Electrochemistry, Photochemistry, Sonochemistry, Thermochemistry) Exclusions: Biochemistry is excluded from this field and included in "Biochemistry".
0742		<b>Earth Sciences</b>  Earth Sciences is the study of the composition and structure of earth including the hydrosphere and the atmosphere. Programs and qualifications include: Atmospheric Science; Climate Research; Ecology; Geodesy; Geographic Information Systems (GIS); Geography (Physical); Geoinformatics; Geology (incl. Engineering Geology, Geomorphology, Mineralogy, Paleontology, Petrology); Geomatics; Geoscience; Geospatial Technology; Hydrology (incl. Hydrogeology, Oceanography); Marine Science; Meteorology; Seismology; Vulcanology Exclusions: Social geography is excluded from this field and included in "Sociology and Cultural Studies". Soil science is excluded from this field and included in "Animal and Crop Farming".
0743		<b>Physics and Space Sciences</b>  Physics and Space Sciences is the study of properties and interactions of matter and energy. It includes the study of astronomy and space science. Programs and qualifications include: Acoustics; Astronomy; Astrophysics; Atmospheric Physics; Biophysics; Chemical Physics; Classical Mechanics (incl. Dynamics, Statics); Geophysics; Medical Physics; Nuclear Physics; Optics; Planetary Sciences; Relativistic Mechanics; Space Science; Thermodynamics Exclusions: Opticians' practice is excluded from this field and included in "Medical Diagnostic and Treatment Technology".
08		<b>Social and Behavioral Sciences</b>
081		<b>Social and Behavioral Sciences</b>
0811		<b>Economics and Related</b>  Economics is the study of economic policy, economic theory and economic decisionmaking. Programs and qualifications include: Econometrics; Economic History; Economics; International Economics; Macroeconomics; Microeconomics; Political Economics Exclusions: Study of economics where emphasis is given to business studies is excluded from this field and classified under "Business, Law, and Related". Study of home economics is excluded from this field and included in "Domestic Services".
0812		<b>Political Sciences and Related</b>  Political Sciences and Related is the study of government and political principles or practice. The study of the rights and duties of the citizens are included here. Programs and qualifications include: Civics; Human Rights; International Relations; Peace and Conflict Studies; Political History; Political Science; Public Policy Studies Exclusions: Study of political economics is excluded from this field and included in "Economics and Related".
0813		<b>Psychology and Related</b>  Psychology is the study of the human mind and behavior as a result of individual differences, experience and environment. Programs and qualifications include: Child Psychology; Cognitive Sciences; Conversational Therapy; Psychoanalysis; Psychology; Psychotherapy
0814		<b>Sociology and Cultural Studies</b>  Sociology and Cultural Studies is the study of human beings and the way they behave in groups and in relation to society. The study of ethnology and social anthropology are included here, likewise the study of human and social geography. Programs and qualifications include: Criminology; Cultural Geography; Cultural Studies; Demography/Population Studies; Ethnology; Futurology; Gender Studies; Human Geography; Social Anthropology; Social Conflict Theory; Social Geography; Sociology Exclusions: Social welfare where emphasis is given to practical social work is excluded from this field and included in "Social Work and Counselling". Physical geography is excluded from this field and included in "Earth Sciences".
09		<b>Arts, Design, Humanities, Media, and Related</b>
091		<b>Arts, Design, and Related</b>
0911		<b>Design</b>  Design is the study of creatively combining line, form and fabric in designing and constructing e.g. fashion garments, industrial products and interiors. Programs and qualifications include: Fashion Design (incl. Costume Design, Jewelry Design); Industrial Design (incl. Automotive Design, Furniture Design, Packaging Design, Product Design, Transport Design); Interior Decoration; Interior Design; Retail Design; Stage Design; Window Dressing Exclusions: Study of building design is excluded from this field and included in "Architecture and Planning". Study of industrial design is excluded from this field if emphasis is given to technical subjects and not to artistic design, and included in the appropriate field under "Engineering and Related". Publishing design and graphic design are excluded from this field and included in "Audio-Video, Digital, and Print Production".
0912		<b>Fine Arts</b>  Fine Arts is the study of visual forms of creative expression, dealing with theory, history, techniques, performance and production in fine arts. Programs and qualifications include: Aesthetics; Art Theory; Calligraphy; Drawing; Etching; Fine Art Printmaking; History of Art; Lithography; Painting; Philosophy of Art; Sculpture; Sketching Exclusions: Training in ceramics, pottery etc is excluded from this field and included in "Handicrafts". Study of architecture is excluded from this field and included in "Architecture and Planning". Teacher training in arts is excluded from this field and included in "Teacher Training with Subject Specialization".
0913		<b>Handicrafts</b>  Handicrafts is the study of techniques and skills in a chosen craft, such as jewelry, pottery, weaving, woodcarving etc. Programs and qualifications include: Artisan Training; Ceramics; Conservation of Cultural Material; Craft Programs; Decorative Glass Crafts; Decorative Metal Crafts; Embroidery; Fibre, Textile, and Weaving Arts; Floristry; Folk Arts; Goldsmithing; Indigenous Crafts; Jewelry Crafts; Making of Musical Instruments (Not Industrial); Musical Instruments (Repairing and Tuning); Needle Crafts; Silversmithing; Stone Carving; Weaving; Woodcarving Exclusions: Study of industrial (large scaled mechanised) production of pottery, woven materials, embroidery etc. is excluded from this field and included in one of the fields under "Architecture, Construction, Engineering, Extraction, Manufacturing".
0914		<b>Music and Performing Arts</b>  Music and Performing Arts is the study of the principles and techniques associated with performance involving music, speech, movement, mime,



characterisation, improvisation and stage craft.  
 Programs and qualifications include: Acting (incl. Film Acting, Theater Acting); Ballet; Choreography; Circus; Composition (Music); Conducting (Music); Dance; Directing (incl. Film Directing, Theater Directing); Drama; Fashion Modeling; History of Film; History of Music; History of Theater; Music; Opera; Performing Arts; Theatre  
 Inclusions: Study of music and performing arts history and theory is included here.  
 Exclusions: Teacher training in music and other performing arts is excluded from this field and included in "Teacher Training with Subject Specialization".

092  
 0921 **Humanities (excl. Languages)**  
**History and Archeology**

History is the study of past events, especially the political, social and economic development of a country, a continent or the world. History of medicine is classified here, likewise the study of history of science and ideas. Archeology is the study of ancient civilisations by scientific analysis of what is found in the ground.  
 Programs and qualifications include: Archeology; Folklore Studies; History; History of Culture; History of Literature; History of Medicine; History of Science; History of Technology; Medieval and Renaissance Studies; Preservation of Heritage  
 Inclusions: Restoration and preservation of artistic heritage are included here.  
 Exclusions: Study of literature combined with study of a specific language is excluded from this field and included in "Literature and Linguistics". Study of classical languages (Latin etc.) is excluded from this field and included in "Language Acquisition". Study of history of art is excluded from this field and included in "Fine Arts". Study of music and performing arts history is excluded from this field and included in "Music and Performing Arts". Study of economic history/history of economics is excluded from this field and included in "Economics and Related".

0922 **Philosophy and Ethics**

Philosophy and Ethics is the study of philosophy, ethics and related subjects dealing with the conception of life.  
 Programs and qualifications include: Ethics; Logic; Morals; Philosophy  
 Exclusions: Study of religion is excluded from this field and included in "Religion and Theology". Study of philosophy of arts is excluded from this field and is included in "Fine Arts"

0923 **Religion and Theology**

Religion and Theology is the study of religious beliefs, concepts, symbols, expressions and texts of spirituality.  
 Programs and qualifications include: History of Religion; Study of Religions; Study of Sacred Books; Theology  
 Inclusions: Included in this field are programs for children and young people, usually given in religious schools or seminars, in monasteries etc., aiming to develop an interest in the tenets of their religion and sufficient familiarity with its philosophy to assist in the propagation of their faith.  
 Exclusions: Basic programs given in religious schools, seminars etc. containing religious instruction but not emphasising it or leading to a religious vocation, are excluded from this field and included in "Basic Programs and Qualifications". Islamic Sharia programs and qualifications are excluded from this field and included in "Law and Related".

093  
 0931 **Languages**  
**Language Acquisition**

Language Acquisition is the study of the structure and composition of languages taught as second or foreign languages (i.e. that are intended for non-native or non-fluent speakers of the language). It includes the study of related cultures, literature, linguistics and phonetics if related to the specific language being acquired and forms part of the same program or qualification. Classical or dead languages are included here as it is assumed there are no native speakers of the language and hence the manner of teaching and the content of the curriculum are more similar to the teaching of foreign languages.  
 Programs and qualifications include: Classical Languages (incl. Latin); Exogenous Languages; Foreign (Second) Language Programs; Interpretation Programs; Philology (Foreign Language); Phonetics (Foreign Language); Semantics (Foreign Language); Sign Language; Translation Programs  
 Inclusions: Language and linguistics studies are included here if the linguistics are related to a specific language or languages being acquired and forming part of the same program or qualification. Translation and interpretation are included here.  
 Exclusions: The study of the mother tongue or first language (i.e. that are intended for native, fluent or competent speakers of the language), even if this language is not a national language of the country of study (e.g. programs for immigrants learning their mother tongue) are excluded from this field and included in "Literature and Linguistics".

0932 **Literature and Linguistics**

Literature and Linguistics is here defined as the study of language(s) intended for native, fluent or competent speakers of the language. It includes the study of related literature and linguistics and may or may not include the structure and composition of the language.  
 Programs and qualifications include: Comparative Literature; Creative Writing; Indigenous Languages; Linguistics; Literature; Native (First) Language Programs; Philology (Native Language); Phonetics (Native Language); Semantics (Native Language); Speech and Rhetorical Studies  
 Inclusions: Languages taught as the first language, even if the language is not the national language of the country of study (e.g. programs for immigrants in their home or first language) are included here. Local and regional languages are included here if they are first languages spoken by a significant minority in the country and are intended for at least competent speakers of the language. Study of comparative literature is included here. Study of general linguistics (not related to the study of a particular language) is included here. Study of literature in general (not combined with study of a special language) is included here.  
 Exclusions: Language programs are excluded from this field if the language is taught as a foreign or a second language, and are then included in "Language Acquisition". Programs in literacy and numeracy are excluded from this field and included in "Literacy and Numeracy". Sign language programs are excluded from this field and included in "Language Acquisition".

094  
 0941 **Media and Related**  
**Audio-Video, Digital, and Print Production**

Audio-Video, Digital, and Print Production is the study of techniques and skills to produce books or newspapers, radio or TV production, film or video production, recorded music production and graphic reproduction. It includes programs and qualifications in methods of color reproduction, photography and computer graphics. Study of combining pictures, words and decorations in the production of books, magazines, posters, adverts etc. is also included.  
 Programs and qualifications include: Animation (incl. 2D and 3D); Bookbinding; Cinematography (Camera Operating); Compositing (Printing); Composition Equipment Operating; Computer Graphics; DJ Training; Film and Video Editing; Film and Video Production; Graphic Design (incl. Digital Graphic Design, Print Graphic Design); Graphic Reproduction; Illustration; Interactive Media Design; Media Techniques; Multimedia Production; Motion Design; Photo Editing; Photo Production; Photography; Pre-Press Operations; Print Finishing and Binding; Printing; Publishing Design; Radio and TV Production; Recorded Music Production; Sound Techniques; Typography  
 Inclusions: Desktop publishing is included here.  
 Exclusions: Programs and qualifications in the use of specific software applications for desktop publishing and website development are excluded from

this field and included in "Computer and Software Use". Study of journalism (wording and content of messages) is excluded from this field and included in "Journalism and Reporting".

0942	<b>Journalism and Reporting</b>	<p>Journalism and Reporting is the study of the theory and practices of journalism/reporting as part of the field of mass communication. Journalism and Reporting is about the wording and content of messages. It comprises news reporting, writing commentaries and feature stories of public interest etc.</p> <p>Programs and qualifications include: Broadcast Journalism; Editing; Information (Wording and Content); Journalism; Mass Communication (Wording and Content); News Reporting</p> <p>Exclusions: Study of techniques for mass communication (e.g. printing and radio/TV production) is excluded from this field and included in "Audio-Video, Digital, and Print Production". Study of publishing design is excluded from this field and included in "Audio-Video, Digital, and Print Production". Study of public relations is excluded from this field and included in "Advertising, Marketing, and Public Relations".</p>
0943	<b>Libraries, Museums, and Related</b>	<p>Libraries, Museums, and Related is the study of the methods of selecting, acquiring, organizing and storing collections of information, and facilitating the use of information. Museum and library studies are included here.</p> <p>Programs and qualifications include: Archival Sciences; Curatorial Studies; Documentation; Information Science; Librarian Training; Library Studies; Museum Studies</p> <p>Exclusions: Restoration and preservation of artistic heritage are excluded from this field and included in "History and Archeology".</p>
10	<b>Other Fields</b>	
101	<b>Hospitality, Leisure, and Tourism</b>	
1011	<b>Hospitality, Leisure, and Tourism</b>	<p>Hospitality is the study of providing food, beverages, accommodation and related services at hotels, restaurants etc.</p> <p>Programs and qualifications include: Bar Services; Barista/Bartender Training; Catering; Cooking (Restaurants and Hotels); Croupier Training; Culinary Arts; Fast Food Preparation; Food Serving; Hotel Management; Hospitality Services; Hotel and Restaurant Studies; Hotel Receptionist Training; Hotel Services; Restaurant Management; Waiter/Waitress Training</p> <p>Exclusions: Study of food processing (industrial) is excluded from this field and included in "Food and Beverage Processing". Receptionist training (general) is excluded from this field and included in "Secretarial and Office Work".</p> <p>Leisure is the study of recreational and leisure activities for individuals and groups. Tourism is the study of marketing and advertising tourist destinations and events. It includes the study of ticketing and reservation practices.</p> <p>Programs and qualifications include: Abseiling (Rope Climbing); Adventure Based Activities; Ground Crew Training (Airport); Guiding (Tour Leading); Recreation and Leisure; Travel Agency Services; Travel and Tourism; Travel Services</p> <p>Inclusions: Basic training in how to treat tourists is included here.</p> <p>Exclusions: Study of recreation and leisure activities for school children is excluded from this field and included in "Child Care and Youth Services".</p>
102	<b>Personal, Domestic, and Community Services</b>	
1021	<b>Beauty Services</b>	<p>Beauty Services are the study of caring for the hair and the body for beautification.</p> <p>Programs and qualifications include: Barber Training; Barbering; Beauty Massage; Beauty Therapy; Cosmetic Services; Cosmetology (Makeup); Fitness and Weight Control; Fitness Instructor Training; Hairdressing; Hair Stylist Training; Makeup Art; Makeup Artist Training; Manicure; Pedicure; Wig Making</p>
1022	<b>Domestic Services</b>	<p>Domestic Services are the study of various domestic services, such as housekeeping, cleaning, laundering, sewing etc.</p> <p>Programs and qualifications include: Caretaking; Chimney Sweeping; Cleaning; Cooking (Home); Domestic Science; Dry Cleaning; Funeral Services and Mortuary Science; Home Economics; Housekeeping; Laundry; Needlework (Home); Sewing (Home)</p> <p>Inclusions: Cleaning is included here even if directed towards cleaning schools, hospitals, factories etc.</p> <p>Exclusions: Study of building maintenance is excluded from this field and included in "Building Construction and Civil Engineering".</p>
1023	<b>Community Services</b>	<p>Community Services is the study of community services dealing with items that affect public health such as hygienic standards in food, water supply, disposal of sewage and garbage and street cleaning.</p> <p>Programs and qualifications include: Community Hygiene; Community Sanitation; Garbage/Refuse Collection; Garbage/Refuse/Sewage Disposal; Hygienic Standards; Street Cleaning; Water Supply (Service); Waste Management</p>
103	<b>Transportation and Delivery Services</b>	
1031	<b>Transportation and Delivery Services</b>	<p>Transportation and Delivery Services is the study of operating, navigating and directing ships, train, aircraft and other forms of transportation.</p> <p>Programs and qualifications include: Air Crew Training (Cabin Crew Training); Air Traffic Control; Air Traffic Safety; Aviation; Crane Operation; Delivery Services (incl. Postal Services); Driving Programs (incl. Buses, Cars, Motorcycles, Trucks); Flying and Navigation; Fork-Lift Operation; Nautical Science; Navigation Technologies; Shipping; Steward/Stewardess Training; Transport Communications (incl. Air, Railroad, Road, Water); Transport Operation (incl. Aircrafts, Motor Vehicles, Ships, Trains); Transport Studies</p> <p>Exclusions: Programs in telephone network services are excluded from this field and included in "Electronics and Automation". Programs in switchboard operating are excluded from this field and included in "Secretarial and Office Work".</p>
104	<b>Security Services</b>	
1041	<b>Civil and Private Protection</b>	<p>Civil and Private Protection is the study of services to the community concerning protection of property and persons. It comprises training in police work, public security, fire protection and fire-fighting.</p> <p>Programs and qualifications include: Civil Security (Civil Defence, Civil Protection); Customs Programs; Fire Protection (incl. Fire Fighting, Fire Prevention); Fire Technology; Law Enforcement; Life Guarding; Police Work; Prison Work; Professional Driving; Protection Services (incl. Personal Protection, Property Protection); Public Security; Security Guard Training; Security Systems</p> <p>Exclusions: Study of law is excluded from this field and included in "Law and Related". Study of criminology is excluded from this field and included in "Sociology and Cultural Studies".</p>



1042

## **Military and Defence**

Military and Defence is the study of services to the community connected with war and defence, designed to provide training in the principles and practice of military science.

Programs and qualifications include: Air Force Training; Army Training; Defence Studies; Military Science; Navy Training; War Theory

Exclusions: Military personnel participating in non-military programs should be classified according to the subject content of the training program.

105

## **Sports**

1051

## **Sports**

Sports is the study of techniques and skills in a chosen sport.

Programs and qualifications include: Chess; Jockeying; Physical Training (Physical Culture); Sports Programs (incl. Basketball, Football); Sports Coaching; Sports Diving; Sports Driving; Sports Instructor Training; Sports Leadership; Techniques and Skills in a Chosen Sport; Training of Referees (and Other Sports Officials); Training of Sports Trainers

Inclusions: Jockeying is included here. Chess playing is included here.

Exclusions: Training of school teachers in physical education (sports teachers) is excluded from this field and included in "Teacher Training with Subject Specialization". Fitness services are excluded from this field and included in "Beauty Services".

This open classification was adapted from International Standard Classification of Education, Fields of Education and Training (ISCED-F 2013) which was developed by the United Nations Educational, Scientific and Cultural Organization (UNESCO) and was available in open access under the Creative Commons Attribution-ShareAlike (CC BY-SA) license.

If you have any questions, comments, or feedback regarding this open classification, please do not hesitate to contact Nick Toa at [hello@nicktoa.com](mailto:hello@nicktoa.com)

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