

2022



15

Education
and science

Neuchâtel 2023

Education Statistics 2022



Schweizerische Eidgenossenschaft
Confédération suisse
Confederazione Svizzera
Confederaziun svizra

Swiss Confederation

Federal Department of Home Affairs FDHA
Federal Statistical Office FSO

Pupils and students, 2021/22

Primary level, lower and upper secondary levels

T1

Education level	Total	Male	Female	National origin		
				Swiss	Foreign	Un-specified
Compulsory education	987 664	508 142	479 522	715 946	271 285	433
Primary level 1–2 ^{1/2}	182 158	93 865	88 293	129 749	52 343	66
Primary level 3–8 ²	535 434	275 420	260 014	386 853	148 313	268
Lower secondary level	270 072	138 857	131 215	199 344	70 629	99
Basic requirements	69 239	39 219	30 020	43 188	26 034	17
Extended requirements	168 202	81 208	86 994	137 390	30 782	30
Without differentiation ²	32 631	18 430	14 201	18 766	13 813	52
Upper secondary level	366 353	191 694	174 659	278 433	87 596	324
Transitional education lower – upper sec.	16 648	8 712	7 936	8 008	8 634	6
Vocational education and training (VET) ³	215 581	127 914	87 667	164 514	51 053	14
Vocational baccalaureate ⁴	11 236	5 398	5 838	10 058	1 177	1
General education	106 302	43 261	63 041	82 784	23 419	99
Complement. education on upper secondary level	16 586	6 409	10 177	13 069	3 313	204

¹ kindergarten, first learning cycle

² including special needs school classes, classes for foreign language speaking pupils, introduction classes, other special classes

³ including preparation for federal vocational baccalaureate integrated in vocational education and training (FVB1)

⁴ federal vocational baccalaureate after vocational education and training (FVB2)

Students 2021/22

Tertiary level

T2

Education level	Total	Male	Female	National origin		
				Swiss	Foreign	Un-specified
Professional education	62 498	33 802	28 696	53 961	8 160	377
Colleges of higher education	36 511	18 786	17 725	31 226	5 169	116
Preparation for the federal professional diploma examination ¹	18 744	11 547	7 197	16 396	2 102	246
Preparation for the advanced federal professional diploma examination ¹	3 715	2 141	1 574	3 379	322	14
Professional education not governed by the VPETA	3 528	1 328	2 200	2 960	567	1
Higher education institutions	276 607	131 226	145 381	202 167	74 440	
Universities of applied sciences including universities of teacher education	108 417	50 304	58 113	88 939	19 478	
Universities	168 190	80 922	87 268	113 228	54 962	
Humanities and social sciences	47 754	15 036	32 718	35 012	12 742	
Economics	23 082	14 775	8 307	14 706	8 376	
Law	16 788	6 584	10 204	13 658	3 130	
Exact and natural sciences	33 278	19 928	13 350	18 655	14 623	
Medicine and pharmacy	21 329	7 720	13 609	16 314	5 015	
Engineering, architecture	21 041	14 303	6 738	11 250	9 791	
Interdisciplinary and others	4 918	2 576	2 342	3 633	1 285	
Tertiary level	339 105	165 028	174 077	256 128	82 600	377

¹ Students are not completely surveyed because the preparations for federal exams are not formally regulated. They often take place in modular trainings, which are only surveyed if the single module corresponds to at least half a school-year (full time equivalent).

Pupils 2021/22

Compulsory education, cantons

T3

Canton	Compulsory education ¹			
	Total	Primary level 1–2 ²	Primary level 3–8	Lower secondary level
Switzerland	987 664	182 158	535 434	270 072
ZH	176 837	34 133	97 873	44 831
BE	114 214	20 697	62 449	31 068
LU	45 850	7 691	25 584	12 575
UR	3 908	720	2 143	1 045
SZ	17 097	3 072	9 305	4 720
OW	4 301	731	2 373	1 197
NW	4 139	668	2 271	1 200
GL	4 557	852	2 443	1 262
ZG	15 058	2 775	8 066	4 217
FR	41 035	7 350	22 090	11 595
SO	29 646	5 596	16 271	7 779
BS	19 856	3 924	10 838	5 094
BL	33 024	5 638	17 969	9 417
SH	9 084	1 626	4 982	2 476
AR	6 404	1 275	3 556	1 573
AI	1 913	372	1 030	511
SG	59 836	11 250	32 617	15 969
GR	19 379	3 617	10 502	5 260
AG	81 852	15 119	44 682	22 051
TG	32 152	6 298	17 552	8 302
TI	37 112	8 315	15 531	13 266
VD	100 969	17 698	54 449	28 822
VS	38 760	6 795	21 158	10 807
NE	20 307	3 471	11 046	5 790
GE	61 891	10 986	34 070	16 835
JU	8 483	1 489	4 584	2 410

¹ including special needs school classes, classes for foreign language speaking pupils, introduction classes, other special classes

² kindergarten, first learning cycle

Teachers in 2021/22 and staff employed in higher education institutions in 2021

(public education)

T4

Education level <i>Type of staff</i>	Persons ¹			Full-time equivalents ²
	Total	of whom		
		Female %	Foreign %	Total
Compulsory education³	99 428	76.5	6.5	63 846
Primary level 1–2 ⁴	19 700	94.5	4.4	9 688
Primary level 3–8	54 777	83.3	5.7	33 520
Lower secondary level	35 091	56.2	9.2	20 639
Upper secondary level	30 290	45.6	8.1	17 851
General education	12 875	49.0	8.9	7 764
Vocational education and training (VET) ⁵	17 415	43.2	7.4	10 087
Tertiary level: colleges of higher education	2 838	40.0	12.1	781
Tertiary level: higher education institutions⁶	101 140	46.9	38.3	66 961
Universities of applied sciences/Universities of teacher education	30 480	48.9	22.2	19 480
Teaching staff with management responsibility	2 034	33.0	27.4	1 841
Other teaching staff	13 127	44.4	22.1	6 455
Assistants and scientific staff	7 435	46.3	28.5	5 093
Managerial, clerical and technical staff	7 884	63.0	14.9	6 091
Universities and institutes of technology	70 660	46.0	45.3	47 481
Professors	4 669	26.5	51.0	4 332
Other teaching staff	10 342	31.6	36.6	2 731
Assistants and scientific staff	34 666	45.5	59.6	24 431
Managerial, clerical and technical staff	20 983	58.2	24.6	15 988

¹ The figures include all teachers working at the level of education considered (double-counting possible).

² Full-time equivalents are expressed as the ratio of actual hours employed and the normal hours of a person employed full-time (e.g. a person employed for 50% of a full-time job counts as 0.5 full-time equivalents).

³ excluding special needs school classes, classes for foreign language speaking pupils, introduction classes and other special classes

⁴ kindergarten, first learning cycle

⁵ including transitional education from lower to upper secondary level, federal vocational baccalaureate and complementary education in upper secondary

⁶ The number of persons employed in higher education institutions is based on the reference day 31 December. The full-time equivalents relate to the entire calendar year.

Selected degrees and certificates, 2021

T5

Education level	Total	Male		Female	
		absolute	%	absolute	%
Upper secondary level					
Federal VET certificate	7 088	4 447	62.7	2 641	37.3
Federal VET diploma	58 933	32 685	55.5	26 248	44.5
Federal vocational baccalaureate	14 500	7 731	53.3	6 769	46.7
Baccalaureate	18 510	7 597	41.0	10 913	59.0
Specialised baccalaureate	3 421	813	23.8	2 608	76.2
Specialised school certificate	4 585	1 210	26.4	3 375	73.6
Transition programmes federal vocational/specialised baccalaureate – University (certificate of university aptitude test)	1 401	690	49.3	711	50.7
Tertiary level					
Professional education					
Diploma from professional education not governed by the VPETA ¹	385	161	41.8	224	58.2
Federal diploma of higher education	15 828	9 149	57.8	6 679	42.2
Advanced federal diploma of higher education	2 900	2 069	71.3	831	28.7
Colleges of higher education diploma (advanced federal diploma of higher education)	9 977	5 004	50.2	4 973	49.8
Higher education institutions					
Diploma from a university of teacher education	1 125	588	52.3	537	47.7
Bachelor's degree from a university of applied sciences and teacher education	18 269	8 110	44.4	10 159	55.6
Master's degree from a university of applied sciences and teacher education	5 449	2 467	45.3	2 982	54.7
First university degree or diploma	96	13	13.5	83	86.5
Bachelor's degree from a university	15 796	7 547	47.8	8 249	52.2
Master's degree from a university	15 765	7 675	48.7	8 090	51.3
Doctorate	4 528	2 398	53.0	2 130	47.0

¹ VPETA: vocational and professional education and training act

Educational institutions, 2021/22

T6

Education level	Total	Private sector ¹ %
Compulsory education	9 427	10.5
Upper secondary level	864	43.9
Tertiary level	424	59.2

¹ government dependent private and independent private educational institutions

Source: FSO – Educational institutions statistics (SBI)

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Public education expenditure by administrative and educational level, 2020

T7

Education level	In CHF millions				
	Total		Administrative level making expenditure		
	absolute	%	Confederation	Cantons	Communes
Total	40 795.7	100.0	4 599.9	25 218.7	10 977.0
of which salaries	27 137.2	66.5	2 394.9	18 416.9	6 325.4
teachers' salaries only	19 173.1	47.0	0.0	15 021.5	4 151.6
Compulsory education	18 118.3	44.4	23.1	7 811.8	10 283.4
Special needs schools	2 285.2	5.6	–	1 797.4	487.8
Upper secondary: Vocational education and training (VET)	3 537.8	8.7	148.0	3 242.4	147.4
Upper secondary: General education	2 342.3	5.7	3.4	2 337.0	1.9
Tertiary: Professional education	493.0	1.2	79.1	405.0	9.0
Tertiary: Higher education institutions	8 883.2	21.8	1 261.5	7 619.6	2.1
Research	4 461.7	10.9	3 072.3	1 387.4	2.0
Non-attributable expenditure	674.2	1.7	12.6	618.2	43.3

Extraordinary expenses are excluded

Sources: FSO – Public education expenditure (ÖBA); FFA – Financial Statistics

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		Recipients	Amount (CHF millions)
Canton grants	All levels	46 241	351.5
	Upper secondary level	28 868	190.6
	Tertiary level ¹	17 776	159.0
Canton loans	All levels	2 633	19.7
	Upper secondary level	214	2.0
	Tertiary level	2 372	17.3
Federal subsidies ²	Tertiary level	16 831	102.8

¹ including federal subsidies to the cantons according to the Education Contributions Act

² Subsidies to persons completing preparatory courses for federal examinations according to the Federal Act on Vocational and Professional Education and Training

Sources: FSO – Cantonal scholarships and loans (STIP),
Subject-based funding in professional education (aHBB)

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Published by:	Federal Statistical Office (FSO)
Information:	www.education-stat.admin.ch , university: sius@bfs.admin.ch , other parts of the educational system: lernstat@bfs.admin.ch
Editor:	Nathalie Quartier-dit-Maire, FSO
Contents:	BILD-P Section
Series:	Swiss Statistics
Topic:	15 Education and science
Original text:	German, French
Translation:	FSO language services
Layout:	Publishing and Dissemination PUB, FSO
Online:	www.statistics.admin.ch
Print:	www.statistics.admin.ch Federal Statistical Office, CH-2010 Neuchâtel, order@bfs.admin.ch , tel. +41 58 463 60 60 Printed in Switzerland
Copyright:	FSO, Neuchâtel 2023 Reproduction with mention of source authorised (except for commercial purposes).
FSO number:	420-2200

The information in this publication contributes to the measurement of the Sustainable Development Goals (SDGs).



The MONET 2030 indicator system

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