

2019



15

Education
and science

Neuchâtel 2020

Education Statistics 2019



Schweizerische Eidgenossenschaft
Confédération suisse
Confederazione Svizzera
Confederaziun svizra

Swiss Confederation

Federal Department of Home Affairs FDHA
Federal Statistical Office FSO

Pupils and students, 2018/19

Primary level, lower and upper secondary levels

T1

Education level	Total	Male	Female	National origin		
				Swiss	Foreign	Un-specified
Compulsory education	954 811	491 253	463 558	691 818	262 153	840
Primary level 1–2 ^{1/2}	176 229	91 249	84 980	126 304	49 753	172
Primary level 3–8 ²	517 905	266 292	251 613	373 496	143 948	461
Lower secondary level	260 677	133 712	126 965	192 018	68 452	207
Basic requirements	69 158	39 191	29 967	43 288	25 827	43
Extended requirements	158 924	76 034	82 890	130 408	28 439	77
Regardless of level ²	32 595	18 487	14 108	18 322	14 186	87
Upper secondary level	362 990	191 893	171 097	280 266	82 441	283
Transitional education lower – upper sec.	18 575	10 484	8 091	8 300	10 262	13
Vocational education and training (VET) ³	220 894	130 372	90 522	173 203	47 663	28
Vocational baccalaureate ⁴	9 810	4 882	4 928	8 874	936	0
General education	99 895	40 511	59 384	78 918	20 883	94
Complement. education in upper secondary	13 816	5 644	8 172	10 971	2 697	148

¹ Kindergarten, first learning cycle

² including special 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, 2018/19

Tertiary level

T2

Education level	Total	Male	Female	National origin		
				Swiss	Foreign	Un-specified
Advanced professional education and training (PET)	60 598	33 707	26 891	52 831	7 236	531
Professional education and training colleges	33 741	17 883	15 858	29 289	4 268	184
Preparation for the federal PET diploma examination ¹	19 205	11 813	7 392	16 886	1 972	347
Preparation for the advanced federal PET diploma examination ¹	3 382	2 455	927	3 073	309	0
Unregulated advanced professional education and training	4 270	1 556	2 714	3 583	687	0
Higher education institutions	252 530	122 586	129 944	188 617	63 913	0
Universities of applied sciences including universities of teacher education	99 672	47 699	51 973	82 606	17 066	0
Universities	152 858	74 887	77 971	106 011	46 847	0
Humanities and social sciences	45 128	14 592	30 536	33 893	11 235	0
Economics	21 925	14 198	7 727	14 313	7 612	0
Law	15 784	6 477	9 307	12 869	2 915	0
Exact and natural sciences	28 945	17 564	11 381	17 036	11 909	0
Medicine and pharmacy	17 770	6 676	11 094	14 087	3 683	0
Engineering, architecture	18 950	13 029	5 921	10 484	8 466	0
Interdisciplinary and others	4 356	2 351	2 005	3 329	1 027	0
Tertiary level	313 128	156 293	156 835	241 448	71 149	531

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, 2018/19

Compulsory education, cantons

T3

Canton	Compulsory education ¹			
	Total	Primary level 1–2 ²	Primary level 3–8	Lower secondary
Switzerland	954 811	176 229	517 905	260 677
ZH	167 744	33 225	91 667	42 852
BE	110 523	20 099	61 311	29 113
LU	43 919	7 162	24 622	12 135
UR	3 946	746	2 135	1 065
SZ	16 880	2 998	9 099	4 783
OW	4 101	596	2 327	1 178
NW	4 221	747	2 300	1 174
GL	4 321	776	2 363	1 182
ZG	14 473	2 573	7 927	3 973
FR	40 469	7 023	21 991	11 455
SO	28 221	5 166	15 524	7 531
BS	18 747	3 687	10 416	4 644
BL	32 056	5 555	17 753	8 748
SH	8 697	1 618	4 874	2 205
AR	5 937	1 149	3 286	1 502
AI	1 803	334	995	474
SG	57 966	10 635	31 382	15 949
GR	19 162	3 557	10 245	5 360
AG	77 949	14 167	43 268	20 514
TG	30 728	5 806	16 655	8 267
TI	37 629	8 680	15 750	13 199
VD	98 493	17 334	53 545	27 614
VS	37 655	6 792	20 386	10 477
NE	20 733	3 550	11 083	6 100
GE	59 868	10 789	32 266	16 813
JU	8 570	1 465	4 735	2 370

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

² Kindergarten, first learning cycle

Teachers in 2018/19 and staff employed in higher education institutions in 2018

(public education)

T4

Education level <i>Type of staff</i>	Persons ¹			Full-time equivalents ²
	Total	of whom		
		Female %	Foreign %	Total
Compulsory education³	94 288	76.1	6.0	60 792
Primary level 1–2 ⁴	18 430	94.9	3.8	9 257
Primary level 3–8	51 844	83.1	5.2	31 686
Lower secondary level	33 807	55.5	8.6	19 849
Upper secondary level	29 402	44.4	7.7	17 560
General education	12 000	47.8	8.4	7 443
Vocational education and training (VET) ⁵	17 402	42.1	7.2	10 117
Tertiary level: professional colleges	2 229	40.6	14.1	699
Tertiary level: higher education institutions⁶	93 074	45.5	37.4	61 808
Universities of applied sciences/Universities of teacher education	28 228	47.2	21.6	17 852
Teaching staff with management responsibility	2 008	30.5	27.3	1 817
Other teaching staff	12 487	42.4	21.8	6 195
Assistants and scientific staff	6 531	45.4	27.0	4 381
Managerial, clerical and technical staff	7 202	61.9	14.6	5 458
Universities and institutes of technology	64 846	44.8	44.3	43 956
Professors	4 531	23.4	50.4	4 116
Other teaching staff	9 063	29.8	35.8	2 590
Assistants and scientific staff	31 947	43.9	58.4	22 503
Managerial, clerical and technical staff	19 305	58.3	23.6	14 747

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 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, vocational matura 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.

Education level	Total	Male		Female	
		absolute	%	absolute	%
Upper secondary level					
Federal VET certificate	6 440	3 670	57.0	2 770	43.0
Federal VET diploma	62 596	34 248	54.7	28 348	45.3
Vocational baccalaureate	14 228	7 561	53.1	6 667	46.9
Academic baccalaureate	18 787	7 793	41.5	10 994	58.5
Specialised baccalaureate	2 844	608	21.4	2 236	78.6
Specialised school certificate	4 231	1 032	24.4	3 199	75.6
Transition programmes vocational/specialised baccalaureate – University	1 162	591	50.9	571	49.1
Tertiary level					
Professional education and training (PET)					
Diploma from unregulated professional education and training	271	78	28.8	193	71.2
Federal PET diploma	14 575	8 997	61.7	5 578	38.3
Advanced federal PET diploma	2 840	2 062	72.6	778	27.4
College of professional education and training degree	9 112	4 547	49.9	4 565	50.1
Higher education institutions					
Degree from a university of teacher education	1 066	543	50.9	523	49.1
Bachelor's degree from a university of applied sciences and teacher education	17 014	7 467	43.9	9 547	56.1
Master's degree from a university of applied sciences and teacher education	4 658	2 078	44.6	2 580	55.4
First university degree or diploma	99	18	18.2	81	81.8
Bachelor's degree from a university	14 659	7 069	48.2	7 590	51.8
Master's degree from a university	14 158	7 044	49.8	7 114	50.2
Doctorate	4 164	2 299	55.2	1 865	44.8

Sources: FSO – Statistics on certificates (SBA),
 Vocational education and training statistics (SBG-SFPI),
 Students and degrees of higher education institutions (SHIS-studex)

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Educational institutions, 2018/19

T6

Education level	Total	Private sector ¹ %
Compulsory education	9 497	9.9
Upper secondary level	855	43.2
Tertiary level	415	59.5

¹ government dependent private and independent private educational institutions

Source: FSO – Educational institutions statistics (SBI)

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Financial flows for education¹, 2017

T7

	In CHF million							
	Total		Confederation		Cantons		Communes	
	absolute	%	absolute	%	absolute	%	absolute	%
Funding	38 110	100.0	6 870	18.0	19 123	50.2	12 117	31.8
Transfers								
Confederation to cantons			-2 799		2 799		-	
Cantons to Confederation			10		-10		-	
Cantons to communes			-		-968		968	
Communes to cantons			-		2 816		-2 816	
Total after transfers	38 110	100.0	4 081	10.7	23 760	62.3	10 269	26.9

¹ The public expenditure for research is included in the public expenditure for education.

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

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Public education expenditure by administrative and educational level, 2017

T8

Education level	In CHF million				
	Total		Administrative level making expenditure		
	absolute	%	Confederation	Cantons	Communes
Total	38 109.8	100.0	4 081.0	23 759.7	10 269.1
of which salaries	25 327.8	66.5	2 214.2	17 209.7	5 904.0
teachers' salaries only	18 049.9	47.4	0.0	14 044.7	4 005.2
Compulsory education	16 846.2	44.2	20.9	7 203.6	9 621.7
Special schools	1 913.9	5.0	0.0	1 495.0	418.9
Upper secondary: Vocational education and training (VET)	3 611.6	9.5	64.0	3 370.3	177.3
Upper secondary: General education	2 324.9	6.1	3.6	2 319.4	2.0
Tertiary: Professional edu- cation and training (PET)	422.4	1.1	52.1	370.0	0.3
Tertiary: Higher education institutions	8 173.7	21.4	1 098.5	7 070.2	5.0
Research	4 259.8	11.2	2 830.5	1 427.6	1.7
Non-attributable expenditure	557.3	1.5	11.5	503.8	42.1

Sources: FSO – Public education expenditure (ÖBA); FFA – Financial Statistics © FSO 2020

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