

2018



15

Education
and science

Neuchâtel 2019

Education Statistics 2018



Schweizerische Eidgenossenschaft
Confédération suisse
Confederazione Svizzera
Confederaziun svizra

Swiss Confederation

Federal Department of Home Affairs FDHA
Federal Statistical Office FSO

Pupils and students, 2017/18

Primary level, lower and upper secondary levels

T1

Education level	Total	Male	Female	National origin		
				Swiss	Foreign	Un-specified
Compulsory education	944 706	486 128	458 578	685 699	257 562	1 445
Primary level 1–2 ¹	171 859	88 734	83 125	123 557	48 008	294
Primary level 3–8	494 049	251 572	242 477	360 327	133 034	688
Lower secondary level	247 472	125 377	122 095	185 401	61 671	400
Basic requirements	69 958	39 658	30 300	44 030	25 829	99
Extended requirements	156 724	74 869	81 855	129 120	27 390	214
Regardless of level	20 790	10 850	9 940	12 251	8 452	87
Special education programme	31 326	20 445	10 881	16 414	14 849	63
Upper secondary level	365 324	192 881	172 443	284 051	80 774	499
Transitional education lower – upper sec.	19 108	10 892	8 216	8 545	10 478	85
Vocational education and training (VET) ²	224 557	131 769	92 788	177 747	46 723	87
Vocational baccalaureate ³	9 568	4 822	4 746	8 654	910	4
General education	99 530	40 372	59 158	78 949	20 410	171
Complement. education in upper secondary	12 561	5 026	7 535	10 156	2 253	152

¹ kindergarten, first learning cycle years 1–2

² including preparation for federal vocational baccalaureate integrated in vocational education and training (FVB1)

³ federal vocational baccalaureate after vocational education and training (FVB2)

Students, 2017/18

Tertiary level

T2

Education level	Total	Male	Female	National origin		
				Swiss	Foreign	Un-specified
Advanced professional education and training (PET)	58 991	32 863	26 128	51 398	7 015	578
Professional education and training colleges	32 756	17 425	15 331	28 518	4 057	181
Preparation for the federal PET diploma examination ¹	18 435	11 409	7 026	16 169	1 967	299
Preparation for the advanced federal PET diploma examination ¹	3 468	2 451	1 017	3 152	315	1
Unregulated advanced professional education and training	4 332	1 578	2 754	3 559	676	97
Higher education institutions	247 905	121 055	126 850	185 512	62 393	
Universities of applied sciences including universities of teacher education	97 233	46 633	50 600	80 655	16 578	
Universities	150 672	74 422	76 250	104 857	45 815	
Humanities and social sciences	45 008	14 696	30 312	33 829	11 179	
Economics	21 874	14 221	7 653	14 178	7 696	
Law	15 870	6 650	9 220	12 962	2 908	
Exact and natural sciences	28 157	17 166	10 991	16 719	11 438	
Medicine and pharmacy	16 983	6 516	10 467	13 524	3 459	
Engineering, architecture	18 507	12 845	5 662	10 307	8 200	
Interdisciplinary and others	4 273	2 328	1 945	3 338	935	
Tertiary level	306 896	153 918	152 978	236 910	69 408	578

¹ Students are not completely surveyed because the preparations to 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, 2017/18

Compulsory education, cantons

T3

Canton	Compulsory education ¹			
	Total	Primary level 1–2 ²	Primary level 3–8	Lower secondary
Switzerland	913 380	171 859	494 049	247 472
ZH	160 413	32 141	87 357	40 915
BE	105 942	19 674	58 512	27 756
LU	42 727	7 202	23 814	11 711
UR	3 893	707	2 155	1 031
SZ	16 236	2 985	8 736	4 515
OW	4 036	617	2 261	1 158
NW	4 113	732	2 275	1 106
GL	4 083	747	2 208	1 128
ZG	13 735	2 494	7 503	3 738
FR	38 775	6 824	21 230	10 721
SO	27 074	5 080	14 877	7 117
BS	18 153	3 655	9 965	4 533
BL	30 187	5 529	16 429	8 229
SH	8 119	1 515	4 444	2 160
AR	5 726	1 123	3 157	1 446
AI	1 760	339	918	503
SG	54 603	10 287	29 324	14 992
GR	18 783	3 469	9 923	5 391
AG	73 592	13 880	40 123	19 589
TG	29 152	5 468	15 752	7 932
TI	37 199	8 646	15 644	12 909
VD	93 705	16 843	51 342	25 520
VS	36 925	6 579	20 205	10 141
NE	19 648	3 530	10 944	5 174
GE	56 496	10 324	30 464	15 708
JU	8 305	1 469	4 487	2 349

¹ The 31 326 pupils in special education programmes are excluded.

² kindergarten, first learning cycle years 1–2

Teachers in 2017/18 and staff employed in higher education institutions in 2017

(public education)

T4

Education level <i>Type of staff</i>	Persons ¹			Full-time equivalents ²
	Total	of whom		
		Female %	Foreign %	Total
Compulsory education	93 070	75.9	5.8	59 828
Primary level 1–2 ³	17 900	95.0	3.6	9 034
Primary level 3–8	50 879	83.1	4.9	31 043
Lower secondary level	33 747	55.1	8.5	19 751
Special education programme
Upper secondary level	29 317	44.1	7.9	17 552
General education	11 950	47.7	8.8	7 432
Vocational education and training (VET) ⁴	17 367	41.6	7.3	10 120
Tertiary level:				
Professional colleges	2 035	39.6	14.3	670
Tertiary level: higher education institutions⁵	90 857	45.1	37.5	60 540
Universities of applied sciences/Universities of teacher education	27 282	46.8	21.6	17 225
Teaching staff with management responsibility	2 028	29.9	26.1	1 834
Other teaching staff	12 104	42.1	21.9	5 880
Assistants and scientific staff	6 183	44.4	27.1	4 155
Managerial, clerical and technical staff	6 967	61.9	14.8	5 355
Universities and institutes of technology	63 575	44.4	44.3	43 315
Professors	4 444	22.8	50.0	4 072
Other teaching staff	9 331	28.8	34.8	2 768
Assistants and scientific staff	30 886	43.8	59.0	22 066
Managerial, clerical and technical staff	18 914	58.4	23.7	14 409

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 pre-school, first learning cycle

⁴ including transitional education from lower to upper secondary level, vocational matura and complementary education in upper secondary

⁵ 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, 2017

T5

Education level	Total	Male		Female	
		absolute	%	absolute	%
Upper secondary level					
Federal VET certificate	6 512	3 667	56.3	2 845	43.7
Federal VET diploma	62 268	33 734	54.2	28 534	45.8
Diploma (other professions)	72	13	18.1	59	81.9
Vocational baccalaureate	14 320	7 596	53.0	6 724	47.0
Academic baccalaureate	17 918	7 517	42.0	10 401	58.0
Specialised baccalaureate	2 805	561	20.0	2 244	80.0
Specialised school certificate	3 999	982	24.6	3 017	75.4
Tertiary level					
Professional education and training (PET)					
Diploma from unregulated professional education and training	350	102	29.1	248	70.9
Federal PET diploma	14 448	8 932	61.8	5 516	38.2
Advanced federal PET diploma	2 954	2 071	70.1	883	29.9
College of professional education and training degree	8 754	4 468	51.0	4 286	49.0
Higher education institutions					
Degree from a university of teacher education	1 064	540	50.8	524	49.2
Bachelor's degree from a university of applied sciences and teacher education	16 922	7 516	44.4	9 406	55.6
Master's degree from a university of applied sciences and teacher education	4 367	2 016	46.2	2 351	53.8
First university degree or diploma	104	22	21.2	82	78.8
Bachelor's degree from a university	14 473	6 890	47.6	7 583	52.4
Master's degree from a university	13 981	6 848	49.0	7 133	51.0
Doctorate	4 151	2 291	55.2	1 860	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, 2017/18

T6

Education level	Total	Private sector ³ %
Primary level 1–2 ¹	5 415	6.6
Primary level 3–8 and lower secondary level	6 105	12.5
Upper secondary level: Vocational education and training (VET) ² and general education	857	43.3
Tertiary level: Professional education and training (PET) and higher education institutions	411	59.1

¹ kindergarten, first learning cycle years 1–2

² including transitional education from lower to upper secondary level, vocational matura and complementary education in upper secondary

³ government dependent private and independent private educational institutions

Source: FSO – Educational institutions statistics (SBI)

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Financial flows for education¹, 2016

T7

	In CHF million							
	Total		Confederation		Cantons		Communes	
	absolute	%	absolute	%	absolute	%	absolute	%
Funding	37 173	100.0	6 400	17.2	18 875	50.8	11 899	32.0
Transfers								
Confederation to cantons			–2 762		2 762		–	
Cantons to Confederation			3		–3		–	
Cantons to communes			–		–935		935	
Communes to cantons			–		2 773		–2 773	
Total after transfers	37 173	100.0	3 640	9.8	23 472	63.1	10 061	27.1

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, 2016

T 8

Education level	In CHF millions				
	Total		Administrative level making expenditure		
	absolute	%	Confederation	Cantons	Communes
Total	37 173.5	100.0	3 640.4	23 472.2	10 060.9
of which salaries	24 735.3	66.5			
teachers' salaries only	17 917.8	48.2			
Compulsory education	16 579.0	44.6	16.1	7 164.0	9 399.0
Special schools	1 897.6	5.1	0.0	1 467.6	429.9
Upper secondary: Vocational education and training (VET)	3 604.6	9.7	83.2	3 342.0	179.4
Upper secondary: General education	2 344.6	6.3	1.6	2 341.3	1.7
Tertiary: Professional edu- cation and training (PET)	401.3	1.1	51.3	349.9	0.1
Tertiary: Higher education institutions	8 060.2	21.7	1 108.7	6 946.4	5.0
Research	3 724.7	10.0	2 371.9	1 351.0	1.9
Non-attributable expenditure	561.5	1.5	7.7	510.0	43.9

Sources: FSO – Public education expenditure (ÖBA); FFA – Financial Statistics © FSO 2019

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