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Education and science

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Education Statistics 2016



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Federal Department of Home Affairs FDHA
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Neuchâtel 2017

Pupils and students, 2015/16

Primary level, lower and upper secondary levels

T1

Education level	Total	Male	Female	National origin		
				Swiss	Foreign	Un-specified
Compulsory education	928 268	477 800	450 468	680 152	247 284	832
Primary level 1–2 ¹	170 566	87 442	83 124	123 786	46 572	208
Primary level 3–8	477 572	243 290	234 282	350 462	126 704	406
Lower secondary level	249 020	126 887	122 133	189 109	59 720	191
Basic requirements	71 788	40 510	31 278	46 305	25 434	49
Extended requirements	157 517	76 000	81 517	131 264	26 161	92
Regardless of level	19 715	10 377	9 338	11 540	8 125	50
Special education programme	31 110	20 181	10 929	16 795	14 288	27
Upper secondary level	365 171	190 972	174 199	288 809	75 820	542
Transitional education lower – upper sec.	17 554	9 045	8 509	9 017	8 524	13
Vocational education and training (VET) ²	228 431	132 832	95 599	183 514	44 529	388
Vocational matura ³	9 486	4 869	4 617	8 578	907	1
General education	96 849	39 247	57 602	77 128	19 614	107
Complement. education in upper secondary	12 851	4 979	7 872	10 572	2 246	33

¹ Kindergarten, first learning cycle

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

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

Students, 2015/16

Tertiary level

T2

Education level	Total	Male	Female	National origin		
				Swiss	Foreign	Un-specified
Professional education and training (PET)	56 597	31 950	24 647	49 472	6 656	469
Professional colleges	29 499	15 698	13 801	25 815	3 541	143
Preparation for the Federal PET Diploma Examination ¹	18 879	11 910	6 969	16 626	1 972	281
Preparation for the Advanced Federal PET Diploma Examination ¹	3 608	2 688	920	3 215	382	11
Unregulated professional education and training	4 611	1 654	2 957	3 816	761	34
Higher education institutions	238 756	116 812	121 944	179 547	59 209	
Universities of applied sciences	92 810	44 355	48 455	77 210	15 600	
including Universities of Teacher Education	20 106	5 392	14 714	18 189	1 917	
Universities	145 946	72 457	73 489	102 337	43 609	
Humanities and social sciences	44 442	14 428	30 014	33 437	11 005	
Economics	21 998	14 362	7 636	14 168	7 830	
Law	16 158	6 862	9 296	13 225	2 933	
Exact and natural sciences	25 758	15 853	9 905	15 514	10 244	
Medicine and pharmacy	15 646	6 085	9 561	12 544	3 102	
Engineering, architecture	17 781	12 610	5 171	10 192	7 589	
Interdisciplinary and others	4 163	2 257	1 906	3 257	906	
Tertiary level	295 353	148 762	146 591	229 019	65 865	469

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, 2015/16

Compulsory education, cantons

T3

Canton	Compulsory education ¹			
	Total	Primary level 1–2 ²	Primary level 3–8	Lower secondary
Switzerland	897 158	170 566	477 572	249 020
ZH	153 996	31 045	82 961	39 990
BE	104 203	20 366	55 667	28 170
LU	41 747	6 386	23 383	11 978
UR	3 917	701	2 125	1 091
SZ	16 201	2 815	8 661	4 725
OW	4 025	596	2 216	1 213
NW	4 136	694	2 288	1 154
GL	4 085	747	2 141	1 197
ZG	13 415	2 519	7 132	3 764
FR	38 654	7 130	20 908	10 616
SO	26 982	5 100	14 612	7 270
BS	17 546	3 676	9 400	4 470
BL	29 481	5 466	15 632	8 383
SH	7 829	1 556	4 115	2 158
AR	5 642	1 087	2 982	1 573
AI	1 802	319	893	590
SG	54 198	10 276	28 684	15 238
GR	19 012	3 335	10 022	5 655
AG	71 492	13 990	37 810	19 692
TG	28 952	5 500	15 539	7 913
TI	37 516	8 533	15 972	13 011
VD	91 675	16 885	49 481	25 309
VS	36 380	6 516	19 606	10 258
NE	20 149	3 670	10 973	5 506
GE	55 456	10 213	29 671	15 572
JU	8 667	1 445	4 698	2 524

¹ The 31 110 pupils in special education programmes are excluded.

² Kindergarten, first learning cycle

Teachers in 2015/16 and staff employed in higher education institutions in 2015

(public education)

T4

Education level <i>Type of staff</i>	Persons ¹			Full-time equiva- lents ²
	Total	of whom		
			Female %	Foreign %
Compulsory education	91 219	74.7	5.7	58 124
Primary level 1–2 ³	17 868	94.6	3.2	9 075
Primary level 3–8	48 595	82.3	4.6	29 383
Lower secondary level	34 442	54.0	8.5	19 666
Special education programme
Upper secondary level	29 014	42.8	8.0	17 227
General education	12 129	46.5	8.9	7 240
Vocational education and training (VET) ⁴	16 885	40.2	7.4	9 987
Tertiary level: Professional colleges	2 064	41.4	12.9	654
Tertiary level: higher education institutions⁵				
Universities of applied sciences/Universities of teacher education	27 263	46.0	21.4	16 735
Teaching staff with man- agement responsibility	1 781	30.2	25.6	1 565
Other teaching staff	12 747	41.0	20.9	6 065
Assistants and scientific staff	5 870	43.7	28.4	3 956
Managerial, clerical and technical staff	6 865	61.3	15.1	5 149
Universities and institutes of technology	60 909	44.5	44.1	41 519
Professors	4 217	21.3	50.3	3 880
Other teaching staff	8 816	28.4	34.8	2 678
Assistants and scientific staff	30 141	44.0	58.2	21 290
Managerial, clerical and technical staff	17 735	58.9	23.1	13 671

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 Kindergarten, 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, 2015

T5

Education level	Total	Male		Female	
		absolute	%	absolute	%
Upper secondary level					
Certificate of basic vocational education	270	222	82	48	18
Federal certificate	5 913	3 241	55	2 672	45
Federal proficiency certificate	63 338	34 320	54	29 018	46
Proficiency certificate (other professions)	95	29	31	66	69
Trade certificate	2	0	0	2	100
Vocational Matura	14 023	7 507	54	6 516	46
Academic Matura	18 566	7 932	43	10 634	57
Specialised Matura	2 526	487	19	2 039	81
Intermediate school certificate	3 845	891	23	2 954	77
Tertiary level					
Professional education and training (PET)					
Diploma from unregulated professional education and training	472	129	27	343	73
Diploma of professional education and training	14 835	9 178	62	5 657	38
Advanced federal diploma of professional education and training	2 707	2 039	75	668	25
College of professional education and training degree	8 483	4 412	52	4 071	48
Higher education institutions					
Degree from a university of applied sciences	1 048	499	47.6	549	52.4
Bachelor's degree from a university of applied sciences	15 897	7 027	44.2	8 870	55.8
Master's degree from a university of applied sciences	3 831	1 744	45.5	2 087	54.5
First university degree or diploma	495	196	39.6	299	60.4
Bachelor's degree from a university	14 292	6 870	48.1	7 422	51.9
Master's degree from a university	13 439	6 523	48.5	6 916	51.5
Doctorate	3 854	2 127	55.2	1 727	44.8

Sources: FSO – Statistics on certificates (SBA),
Students and Degrees in Higher Education (SHIS/SIUS)

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Educational institutions, 2015/16

T6

Education level	Total	Private sector ³ %
Primary level 1–2 ¹	5 454	6.3
Primary level 3–8 and lower secondary level	6 198	12.1
Upper secondary level: Vocational education and training (VET) ² and general education	838	44.0
Tertiary level: Professional education and training (PET) and higher education institutions	408	59.6

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, 2014

T7

	In CHF millions							
	Total		Confederation		Cantons		Communes	
	absolute	%	absolute	%	absolute	%	absolute	%
Funding	35 979	100.0	6 125	17.0	18 588	51.7	11 265	31.3
Transfers								
Confederation to cantons			– 2 725		2 725		–	
Cantons to Confederation			15		– 15		–	
Cantons to communes			–		– 924		924	
Communes to cantons			–		2 608		– 2 608	
Total after transfers	35 979	100.0	3 415	9.5	22 982	63.9	9 582	26.6

¹ The public expenditures for research are included in the public expenditures for education.

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

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Public expenditure on education by administrative and educational level, 2014

T8

Education level	In CHF millions				
	Total		Administrative level making expenditure		
	absolute	%	Confederation	Cantons	Communes
Total	35 978.9	100.0	3 415.0	22 981.7	9 582.2
of which salaries	23 979.0	66.6			
teacher's salaries only	17 553.2	48.8			
Compulsory education	15 834.2	44.0	21.1	6 897.1	8 915.9
Special schools	1 923.1	5.3	–	1 472.5	450.6
Upper secondary: Vocational education and training (VET)	3 514.9	9.8	80.7	3 267.9	166.3
Upper secondary: General education	2 317.5	6.4	1.6	2 313.0	2.9
Tertiary: Professional education and training (PET)	370.1	1.0	49.1	320.6	0.5
Tertiary: Higher education institutions	8 056.6	22.4	1 054.0	6 999.9	2.6
Research	3 390.3	9.4	2 201.1	1 187.3	1.9
Non-attributable expenditure	572.1	1.6	7.3	523.4	41.4

Sources: FSO – Public education expenditure (ÖBA); FFA – Financial Statistics © FSO 2017

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