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Education and science

420-1500

Education Statistics 2015



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Pupils and students in 2014/15

T1

Lower and upper primary levels, lower and upper secondary levels

Education level	Total	Male	Female	National origin		
				Swiss	Foreign	Un-specified
Compulsory education	920 958	474 244	446 714	677 895	241 775	1 288
Lower primary ¹ level	167 030	86 044	80 986	121 598	45 062	370
Upper primary ² level	467 394	237 906	229 488	343 960	122 806	628
Lower secondary level	255 264	130 022	125 242	195 160	59 867	237
Basic requirements	68 825	38 678	30 147	44 819	23 935	71
Extended requirements	155 978	75 354	80 624	131 117	24 767	94
Regardless of level	30 461	15 990	14 471	19 224	11 165	72
Special education programme	31 270	20 272	10 998	17 177	14 040	53
Upper secondary level	366 140	190 943	175 197	292 665	72 618	857
Transitional education lower – upper sec.	16 881	8 258	8 623	9 253	7 597	31
Vocational education and training (VET) ³	230 534	133 566	96 968	186 574	43 426	534
Vocational matura ⁴	8 968	4 646	4 322	8 067	840	61
General education	96 477	39 315	57 162	77 535	18 718	224
Complement. education in upper secondary	13 280	5 158	8 122	11 236	2 037	7

Source: FSO – Statistics on pupils and students (SDL)

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¹ Kindergarten, first learning cycle years 1–2.

² Years 3–8.

³ Including preparation for vocational baccalaureate integrated in vocational education and training (MP1).

⁴ Federal vocational baccalaureate after vocational education and training (MP2).

Students in 2014/15

T2

Tertiary level

Education level	Total	Male	Female	National origin		
				Swiss	Foreign	Un-specified
Professional education and training (PET)	61 160	33 637	27 523	49 324	11 345	491
Professional colleges	27 977	14 748	13 229	24 507	3 288	182
Preparation for the Federal PET Diploma Examination	19 376	12 281	7 095	17 270	1 807	299
Preparation for the Advanced Federal PET Diploma Examination	3 201	2 452	749	2 869	323	9
Unregulated professional education and training	10 606	4 156	6 450	4 678	5 927	1
Higher education institutions	233 616	114 171	119 445	176 175	57 441	
Universities of applied sciences	89 656	42 744	46 912	74 661	14 995	
including Universities of Teacher Education	19 476	5 143	14 333	17 599	1 877	
Universities	143 960	71 427	72 533	101 514	42 446	
Humanities and social sciences	44 765	14 417	30 348	33 829	10 936	
Economics	21 814	14 322	7 492	14 022	7 792	
Law	15 908	6 790	9 118	13 158	2 750	
Exact and natural sciences	25 049	15 428	9 621	15 135	9 914	
Medicine and pharmacy	15 047	5 882	9 165	12 181	2 866	
Engineering, architecture	17 235	12 281	4 954	9 940	7 295	
Interdisciplinary and others	4 142	2 307	1 835	3 249	893	
Tertiary level	294 776	147 808	146 968	225 499	68 786	491

Sources: FSO – Statistics on pupils and students (SDL);
Students and Degrees in Higher Education (SHIS/SIUS)

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Pupils in 2014/15

T3

Compulsory education, cantons

Canton	Compulsory education ¹			
	Total	Lower primary I ²	Upper primary II ³	Lower primary I
Switzerland	889 688	167 030	467 394	255 264
ZH	151 102	30 018	81 146	39 938
BE	102 956	19 907	54 519	28 530
LU	41 647	6 105	23 041	12 501
UR	3 900	657	2 131	1 112
SZ	16 253	2 781	8 708	4 764
OW	3 970	529	2 229	1 212
NW	4 227	720	2 265	1 242
GL	4 089	741	2 166	1 182
ZG	13 246	2 425	7 036	3 785
FR	38 377	7 058	20 606	10 713
SO	26 826	5 105	14 215	7 506
BS	17 060	3 477	9 077	4 506
BL	29 405	5 432	12 835	11 138
SH	7 713	1 476	4 106	2 131
AR	5 696	1 048	2 993	1 655
AI	1 840	327	904	609
SG	54 396	10 078	28 809	15 509
GR	19 257	3 355	10 044	5 858
AG	70 216	13 783	36 458	19 975
TG	28 740	5 251	15 331	8 158
TI	37 688	8 504	16 032	13 152
VD	91 131	16 830	48 350	25 951
VS	36 120	6 398	19 357	10 365
NE	20 236	3 663	10 892	5 681
GE	55 047	9 918	29 521	15 608
JU	8 550	1 444	4 623	2 483

Source: FSO – Statistics on pupils and students (SDL)

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¹ The 31,270 pupils in special education programmes are excluded.

² Kindergarten, first learning cycle years 1–2.

³ Years 3–8.

Teachers in 2014/15 and staff employed in higher education institutions 2014

T4

(public education)

Education level <i>Type of staff</i>	Persons ²			Full-time equiva- lents ¹
	Total	of whom		
			Female %	Foreign %
Compulsory education	88 598	73.9	5.5	57 282
Primary I	17 729	94.2	3.1	8 934
Primary II	47 223	81.6	4.2	28 542
Lower secondary	34 261	53.9	8.4	19 806
Special education programme
Upper secondary education	28 845	42.2	7.8	17 098
General education	11 768	46.0	8.7	7 151
Vocational education and training (VET) ³	17 077	39.6	7.2	9 947
Tertiary level:				
Professional colleges	2 159	38.7	13.4	670
Tertiary level: higher education institutions⁴				
Universities of applied sciences/Universities of teacher education	26 963	45.6	21.7	16 343
Teaching staff with man- agement responsibility	1 786	29.9	26.6	1 578
Other teaching staff	12 740	40.7	21.3	5 839
Assistants and scientific staff	5 813	43.0	28.6	3 891
Managerial, clerical and technical staff	6 624	61.5	15.0	5 034
Universities and institutes of technology	59 722	44.0	43.5	39 781
Professors	4 088	20.4	49.5	3 705
Other teaching staff	8 867	27.9	34.6	2 786
Assistants and scientific staff	29 557	43.1	57.4	20 086
Managerial, clerical and technical staff	17 210	59.2	22.9	13 204

Sources: FSO – School staff statistics (SSP); Universities' staff statistics (SHIS/SIUS – PERS)

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¹ 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).

² The figures include all teachers working at the level of education considered (double-counting possible).

³ Including transitional education from lower to upper secondary level, vocational matura and complementary education in upper secondary.

⁴ 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 in 2014

T5

Education level	Total	Male		Female	
		absolute	%	absolute	%
Upper secondary level					
Certificate of basic vocational education	374	318	85	56	15
Federal certificate	5 870	3 094	53	2 776	47
Federal proficiency certificate	61 128	33 354	55	27 774	45
Proficiency certificate (other professions)	100	28	28	72	72
Trade certificate	180	103	57	77	43
Vocational Matura	14 172	7 489	53	6 683	47
Academic Matura	18 438	7 933	43	10 505	57
Specialised Matura	2 340	446	19	1 894	81
Intermediate school certificate	3 861	894	23	2 967	77
Tertiary level					
Professional education and training (PET)					
Diploma from unregulated professional education and training	1 776	659	37	1 117	63
Diploma of professional education and training	14 537	9 065	62	5 472	38
Advanced federal diploma of professional education and training	2 635	1 978	75	657	25
College of professional education and training degree	8 106	4 177	52	3 929	48
Higher education institutions					
Degree from a university of applied sciences	1 093	567	52	526	48
Bachelor's degree from a university of applied sciences	15 252	6 734	44	8 518	56
Master's degree from a university of applied sciences	3 513	1 607	46	1 906	54
First university degree or diploma	319	97	30	222	70
Bachelor's degree from a university	14 362	6 828	48	7 534	52
Master's degree from a university	12 948	6 328	49	6 620	51
Doctorate	3 849	2 184	57	1 665	43

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

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Educational institutions, in 2014/15

T6

Education level	Total	Private sector ⁴ %
Lower primary ¹ level	5 388	5.9
Upper primary ² and lower secondary levels	4 350	13.0
Upper secondary level: Vocational education and training (VET) ³ and general education	812	43.2
Tertiary level: Professional education and training (PET) and higher education institutions	405	59.5

Source: FSO – Educational institutions statistics (SBI)

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¹ Kindergarten, first learning cycle years 1–2.

² Years 3–8.

³ Including transitional education from lower to upper secondary level, vocational matura and complementary education in upper secondary.

⁴ Government-dependent private and independent private educational institutions.

Financial flows for Education¹, 2013

T7

	In CHF millions							
	Total		Confederation		Cantons		Communes	
	absolute	%	absolute	%	absolute	%	absolute	%
Funding	35 381	100.0	6 133	17.3	18 472	52.2	10 776	30.5
Transfers								
Confederation to cantons			–2 545		2 545		–	
Cantons to Confederation			6		–6		–	
Cantons to communes			–		–909		909	
Communes to cantons			–		2 457		–2 457	
Total after transfers	35 381	100.0	3 594	10.2	22 559	63.8	9 228	26.1

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

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

Public expenditure on education by administrative and educational level, 2013

T8

Education level	In CHF millions				
	Total		Administrative level making expenditure		
	absolute	%	Confederation	Cantons	Communes
Total	35 380.6	100.0	3 594.0	22 559.1	9 227.5
of which salaries	23 556.7	66.6			
teacher's salaries only	17 030.4	48.1			
Compulsory education	15 443.6	43.6	20.8	6 886.0	8 536.7
Special schools	1 893.2	5.4	–	1 442.2	451.0
Upper secondary: Vocational education and training (VET)	3 518.3	9.9	76.4	3 284.4	157.5
Upper secondary: General education	2 330.0	6.6	1.5	2 324.9	3.6
Tertiary: Professional education and training (PET)	339.0	1.0	46.3	292.7	0.0
Tertiary: Higher education institutions	7 626.2	21.6	1 038.2	6 555.0	32.9
Research	3 658.7	10.3	2 403.3	1 253.5	1.9
Non-attributable expenditure	571.6	1.6	7.5	520.4	43.8

Sources: FSO – Public education expenditure (ÖBA); FFA – Financial Statistics © FSO 2016

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