

Appendix table 2-37

S&E first university degrees, by selected Western or Asian country/economy and field: 2000–10

Country/economy and field	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
Australia											
All fields	112,745	129,499	137,877	152,287	130,298	176,906	171,582	176,136	177,155	181,457	191,080
S&E fields	29,859	33,899	41,132	45,627	42,984	50,840	49,836	49,507	47,940	46,348	46,652
Physical/biological sciences	8,523	8,945	8,545	8,444	9,389	10,483	10,982	11,400	11,338	11,363	11,305
Mathematics/computer sciences	5,765	7,453	11,703	15,549	12,574	14,563	13,215	11,621	10,108	8,643	7,976
Agricultural sciences	1,116	1,364	1,120	1,200	1,246	1,132	1,072	1,114	1,037	1,012	1,058
Social/behavioral sciences	4,918	5,699	8,097	8,297	9,732	12,328	12,210	12,709	12,968	12,440	13,067
Engineering	9,537	10,438	11,667	12,137	10,043	12,334	12,357	12,663	12,489	12,890	13,246
Canada											
All fields	127,131	NA	NA	NA	137,296	149,910	176,910	160,428	181,580	178,673	178,827
S&E fields	53,350	NA	NA	NA	53,201	59,970	58,908	60,552	69,046	66,919	65,639
Physical/biological sciences	10,353	NA	NA	NA	9,894	9,750	9,807	14,208	17,097	16,633	16,240
Mathematics/computer sciences	5,424	NA	NA	NA	7,267	8,895	7,896	7,350	6,480	6,055	6,060
Agricultural sciences	1,236	NA	NA	NA	1,537	1,152	987	834	934	872	875
Social/behavioral sciences	26,660	NA	NA	NA	23,845	27,861	27,849	25,851	30,932	29,821	29,183
Engineering	9,677	NA	NA	NA	10,658	12,312	12,369	12,309	13,603	13,538	13,281
China											
All fields	495,624	567,839	655,763	929,598	1,196,290	1,465,786	1,726,674	1,995,944	2,256,783	2,455,359	2,590,535
S&E fields	359,478	337,352	384,529	533,582	672,463	796,430	911,846	1,031,911	1,143,338	1,225,642	1,288,999
Physical/biological sciences	49,214	63,517	72,526	103,409	134,164	163,076	194,807	228,090	251,610	264,494	269,053
Mathematics/computer sciences	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Agricultural sciences	19,154	19,005	22,462	29,758	34,078	35,419	36,740	43,270	45,649	46,847	48,442
Social/behavioral sciences	78,205	35,267	37,517	48,878	61,758	80,710	104,665	126,807	141,475	150,666	158,286
Engineering	212,905	219,563	252,024	351,537	442,463	517,225	575,634	633,744	704,604	763,635	813,218
France											
All fields	275,316	300,088	309,009	328,784	328,784	273,523	285,238	287,035	287,234	286,450	NA
S&E fields	116,160	125,738	111,877	118,954	118,954	94,605	100,524	100,979	100,257	100,118	NA
Physical/biological sciences	33,511	36,659	27,750	29,472	29,472	17,894	19,075	18,838	17,986	17,196	NA
Mathematics/computer sciences	15,042	16,281	14,707	15,613	15,613	14,946	16,134	15,971	15,913	16,490	NA
Agricultural sciences	2,257	2,379	306	327	327	2,193	2,737	2,483	2,112	2,198	NA
Social/behavioral sciences	31,057	34,233	27,893	29,635	29,635	21,170	23,169	23,143	23,223	23,033	NA
Engineering	34,293	36,186	41,221	43,907	43,907	38,402	39,409	40,544	41,023	41,201	NA
Germany											
All fields	178,618	173,407	176,025	183,322	196,608	197,770	267,597	294,357	322,651	356,522	369,059
S&E fields	66,559	62,917	63,400	66,530	71,675	74,970	95,101	104,882	118,486	129,899	138,583
Physical/biological sciences	11,516	10,818	11,243	11,052	11,705	12,454	16,952	19,797	24,539	27,934	30,047
Mathematics/computer sciences	8,700	8,532	9,146	10,630	13,716	16,103	21,656	24,311	26,398	28,571	27,954
Agricultural sciences	2,140	2,051	2,106	2,424	2,575	2,321	2,367	2,457	2,847	2,937	2,918
Social/behavioral sciences	7,884	7,414	8,106	8,876	9,580	10,727	19,919	21,829	24,573	26,293	28,653
Engineering	36,319	34,102	32,799	33,548	34,099	33,365	34,207	36,488	40,129	44,164	49,011
Italy											
All fields	150,677	159,276	171,806	201,019	264,574	291,304	273,451	251,155	231,082	222,631	211,770

Appendix table 2-37

S&E first university degrees, by selected Western or Asian country/economy and field: 2000–10

Country/economy and field	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
S&E fields	57,263	59,082	62,842	72,199	98,767	108,181	100,963	90,332	81,057	79,628	76,449
Physical/biological sciences	8,885	9,059	9,650	10,260	13,469	14,062	13,073	11,519	11,161	11,043	10,967
Mathematics/computer sciences	4,827	4,432	4,491	5,766	6,492	6,354	6,037	5,321	4,763	4,922	4,905
Agricultural sciences	1,345	1,468	1,835	2,529	3,340	3,725	3,611	3,564	3,256	3,322	2,977
Social/behavioral sciences	14,521	15,350	16,701	18,282	29,567	34,916	33,813	30,800	26,924	26,072	24,881
Engineering	27,685	28,773	30,165	35,362	45,899	49,124	44,429	39,128	34,953	34,269	32,719
Japan											
All fields	538,683	545,512	547,711	544,894	548,897	551,016	558,184	559,090	555,690	559,539	541,428
S&E fields	353,465	359,019	357,282	352,088	351,299	349,015	350,137	344,990	336,815	333,553	321,168
Physical/biological sciences	13,300	14,192	19,369	19,549	19,727	19,260	19,805	19,536	19,094	18,790	18,413
Mathematics/computer sciences	4,941	4,965	NA	NA	NA	NA	NA	NA	NA	NA	NA
Agricultural sciences	15,562	14,084	16,393	15,933	15,865	16,015	16,019	16,122	16,113	16,797	17,071
Social/behavioral sciences	216,506	221,300	217,838	215,205	217,276	215,809	217,638	213,179	206,392	204,282	196,061
Engineering	103,156	104,478	103,682	101,401	98,431	97,931	96,675	96,153	95,216	93,684	89,623
Mexico											
All fields	287,019	296,485	321,799	280,589	276,690	309,266	339,340	343,328	336,810	362,241	372,997
S&E fields	86,351	90,482	99,936	86,588	93,858	107,981	117,304	122,997	116,835	128,571	131,518
Physical/biological sciences	6,194	6,251	7,695	6,885	7,093	8,150	8,837	9,244	9,582	10,307	10,089
Mathematics/computer sciences	19,351	22,306	23,557	24,946	24,584	28,860	30,268	29,052	27,805	26,979	13,971
Agricultural sciences	3,475	3,755	4,381	3,533	3,912	3,722	4,143	4,116	4,068	4,668	3,750
Social/behavioral sciences	16,996	17,168	19,621	4,110	15,423	19,921	21,801	27,803	22,554	30,084	32,260
Engineering	40,335	41,002	44,682	47,114	42,846	47,328	52,255	52,782	52,826	56,533	71,448
Poland											
All fields	207,791	240,976	260,953	269,861	278,509	287,607	293,045	309,526	321,762	327,241	355,220
S&E fields	66,160	77,351	83,773	87,774	90,587	93,698	107,355	116,614	117,144	115,942	124,186
Physical/biological sciences	5,613	6,695	7,550	7,128	6,379	6,541	11,585	11,989	12,281	11,984	13,759
Mathematics/computer sciences	4,082	5,752	6,363	8,114	12,785	15,295	17,597	17,274	16,124	15,222	16,120
Agricultural sciences	4,481	4,848	5,252	4,869	4,759	5,114	5,240	6,375	6,438	6,115	6,866
Social/behavioral sciences	26,986	33,513	35,987	36,962	37,389	37,628	38,857	43,882	46,622	47,522	49,069
Engineering	24,998	26,543	28,621	30,701	29,275	29,120	34,076	37,094	35,679	35,099	38,372
South Korea											
All fields	214,498	239,702	244,852	258,126	267,058	268,833	270,546	277,858	315,204	310,025	308,162
S&E fields	96,859	111,060	113,097	115,770	119,338	117,921	116,231	116,651	129,641	125,150	123,658
Physical/biological sciences	13,427	13,915	12,864	17,035	15,811	14,093	14,237	14,343	14,973	15,506	15,732
Mathematics/computer sciences	9,299	14,510	13,591	10,131	14,287	14,494	15,321	16,505	18,453	17,159	16,476
Agricultural sciences	5,859	5,555	5,910	2,387	3,228	4,401	4,021	3,687	4,288	4,078	3,743
Social/behavioral sciences	11,766	14,764	15,790	15,717	15,638	14,131	14,051	14,133	14,689	13,969	13,937
Engineering	56,508	62,316	64,942	70,500	70,374	70,802	68,601	67,983	77,238	74,438	73,770
Spain											
All fields	207,578	211,349	211,979	209,373	202,435	195,946	192,178	185,151	187,420	193,523	197,890
S&E fields	65,813	70,643	70,828	70,693	67,316	64,889	63,201	61,394	60,005	62,338	63,046
Physical/biological sciences	10,908	10,959	10,405	9,930	8,872	8,188	7,770	7,009	6,735	6,466	6,336

Appendix table 2-37

S&E first university degrees, by selected Western or Asian country/economy and field: 2000–10

Country/economy and field	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
Mathematics/computer sciences	9,010	9,952	9,354	9,546	9,929	10,250	10,641	10,458	10,226	10,177	10,070
Agricultural sciences	4,739	4,359	4,865	4,770	4,401	4,279	3,511	3,224	2,862	3,084	3,005
Social/behavioral sciences	13,975	15,079	15,410	14,303	13,326	13,310	12,750	12,320	12,002	12,263	12,500
Engineering	27,181	30,294	30,794	32,144	30,788	28,862	28,529	28,383	28,180	30,348	31,135
Taiwan											
All fields	100,171	117,430	146,166	176,044	192,854	210,763	219,919	228,645	230,198	227,885	227,174
S&E fields	39,804	48,624	61,540	72,540	79,283	85,891	89,741	92,167	92,636	88,859	88,294
Physical/biological sciences	3,448	3,684	3,982	4,294	4,550	4,953	5,425	6,101	6,726	7,010	7,118
Mathematics/computer sciences	8,043	9,391	12,252	15,791	18,546	21,284	23,224	18,733	18,727	17,500	17,235
Agricultural sciences	3,259	3,200	3,583	4,016	5,074	5,024	4,988	4,253	4,455	4,349	4,154
Social/behavioral sciences	5,489	5,762	6,277	6,492	7,002	7,760	7,971	7,005	6,938	7,320	7,322
Engineering	19,565	26,587	35,446	41,947	44,111	46,870	48,133	56,075	55,790	52,680	52,465
Turkey											
All fields	118,882	142,275	140,631	143,813	188,134	150,421	203,108	223,559	245,140	26,582	289,013
S&E fields	49,069	52,292	53,338	53,773	53,793	55,429	71,120	78,202	91,243	98,264	103,173
Physical/biological sciences	8,744	9,685	9,587	9,198	9,224	9,146	9,877	11,674	13,011	13,768	12,020
Mathematics/computer sciences	4,276	5,099	5,377	5,502	5,655	6,235	6,573	7,404	8,551	9,342	9,072
Agricultural sciences	4,913	4,737	5,201	4,524	4,298	4,267	4,455	4,623	5,179	6,050	4,792
Social/behavioral sciences	15,543	16,802	17,006	18,068	17,615	17,674	31,891	34,617	41,883	44,988	53,021
Engineering	15,593	15,969	16,167	16,481	17,001	18,107	18,324	19,884	22,619	24,116	24,268
United States											
All fields	1,254,618	1,260,308	1,308,970	1,365,694	1,417,421	1,456,401	1,502,922	1,541,704	1,580,413	1,619,028	1,668,227
S&E fields	398,602	400,435	415,983	442,755	458,658	470,214	478,858	485,772	496,168	505,435	525,374
Physical/biological sciences	83,484	80,124	79,656	81,576	82,872	86,936	93,349	100,432	104,364	108,058	112,819
Mathematics/computer sciences	49,233	55,034	61,960	70,789	73,703	69,404	63,310	58,147	54,763	54,704	56,939
Agricultural sciences	18,245	17,465	17,359	17,703	17,058	17,120	17,307	17,696	18,474	19,152	20,400
Social/behavioral sciences	188,153	188,598	196,403	208,898	220,345	230,602	236,665	241,223	248,659	252,921	260,817
Engineering	59,487	59,214	60,605	63,789	64,680	66,152	68,227	68,274	69,908	70,600	74,399
United Kingdom^a											
All fields	265,270	274,440	272,660	282,380	292,090	306,360	315,990	319,260	334,790	350,860	369,010
S&E fields	92,530	95,310	95,180	104,120	109,940	112,500	113,580	111,810	114,250	117,710	124,035
Physical/biological sciences	31,630	33,630	32,570	27,300	27,540	28,290	28,540	29,120	30,780	32,695	34,780
Mathematics/computer sciences	15,300	17,120	18,420	23,340	25,600	25,370	24,340	22,090	20,720	20,725	21,470

Appendix table 2-37

S&E first university degrees, by selected Western or Asian country/economy and field: 2000–10

Country/economy and field	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
Agricultural sciences	2,340	2,910	2,970	2,710	3,070	2,920	2,820	2,830	3,040	3,035	3,375
Social/behavioral sciences	22,710	21,170	20,930	31,310	33,940	36,350	38,110	37,870	39,330	39,300	41,505
Engineering	20,550	20,490	20,280	19,460	19,780	19,580	19,770	19,900	20,400	21,955	22,905

NA = not available.

^a Includes former colleges and polytechnic institutions. Data are rounded to the nearest 10. Detail may not add to total because of rounding.

NOTES: Physical/biological sciences include physical; biological; and earth, atmospheric, and ocean sciences. Data for first university degrees use International Standard Classification of Education (ISCED 97), level 5A.

SOURCES: China—National Bureau of Statistics of China, *China Statistical Yearbook*, annual series (Beijing) (various years); Japan—Government of Japan, Ministry of Education, Culture, Sports, Science and Technology, Monbusho Survey of Education (annual series; various years); Taiwan—Ministry of Education, Educational Statistics of the Republic of China (annual series; various years); United Kingdom—Higher Education Statistics Agency, special tabulations (various years); United States—National Center for Education Statistics, Integrated Postsecondary Education Data System, Completions Survey; and National Science Foundation, National Center for Science and Engineering Statistics, Integrated Science and Engineering Resources Data System (WebCASPAR), <http://webcaspar.nsf.gov>; and other countries—Organisation for Economic Co-operation and Development (OECD), OECD Stat Extracts, <http://stats.oecd.org/Index.aspx>.

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