

Table 217.—Graduate enrollment in science and engineering programs in institutions of higher education, by field of study: United States and outlying areas, fall 1985 to fall 1997

Field of engineering or science	1985 ¹	1986 ¹	1987 ¹	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	Percent change, 1990 to 1997
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Total, all sciences and engineering	404,088	415,557	421,526	424,671	434,567	452,178	471,262	493,632	504,449	504,542	499,732	494,219	487,104	7.7
Engineering, total	95,991	101,874	103,953	102,829	104,043	107,625	113,576	118,035	116,858	113,023	107,199	103,223	101,008	-6.1
Aerospace	2,538	2,804	3,015	3,223	3,524	3,934	4,120	4,036	3,940	3,715	3,343	3,208	3,083	-21.6
Agricultural	948	1,071	1,080	1,052	1,043	946	983	1,008	1,018	1,061	1,037	1,012	941	-0.5
Biomedical	1,370	1,534	1,674	1,752	1,916	2,136	2,239	2,537	2,675	2,750	2,732	2,732	2,847	33.3
Chemical	7,150	7,012	7,111	6,618	6,460	6,735	7,127	7,397	7,516	7,608	7,424	7,373	7,247	7.6
Civil	14,902	14,976	14,682	14,811	14,909	15,542	17,398	19,572	19,583	19,925	19,218	18,528	17,033	9.6
Electrical	28,203	29,969	31,399	32,035	33,257	33,722	35,182	36,460	35,314	33,050	30,747	29,736	30,617	-9.2
Engineering science	2,098	2,362	2,343	2,386	2,077	2,020	2,154	2,218	2,180	2,089	1,955	1,751	1,647	-18.5
Industrial	10,499	11,529	12,220	11,393	11,094	11,248	12,676	13,525	13,596	13,661	13,143	12,399	11,725	4.2
Mechanical	14,157	15,713	16,366	16,151	16,265	16,879	17,730	18,637	18,477	17,761	16,363	15,509	15,044	-10.9
Metallurgical/materials	3,943	4,208	4,366	4,337	4,594	4,941	5,160	5,512	5,363	5,191	4,920	4,713	4,649	-5.9
Mining	489	512	513	489	418	437	489	437	427	424	373	371	348	-20.4
Nuclear	1,220	1,265	1,279	1,303	1,323	1,278	1,282	1,286	1,306	1,246	1,154	980	868	-32.1
Petroleum	782	747	818	742	665	670	705	737	725	624	610	562	565	-15.7
Other engineering	7,692	8,172	7,087	6,537	6,498	7,137	6,331	4,673	4,738	3,918	4,180	4,349	4,394	-38.4
All sciences, total	308,097	313,683	317,573	321,842	330,524	344,553	357,686	375,597	387,591	391,519	392,533	390,996	386,096	12.1
Physical sciences, total	30,981	32,246	32,727	32,962	33,616	34,075	34,710	35,348	35,318	34,449	33,417	32,355	31,108	-8.7
Astronomy	671	689	719	731	789	810	829	869	880	973	912	874	778	-4.0
Chemistry	18,305	18,744	18,827	18,579	18,828	19,118	19,407	19,929	20,131	19,797	19,594	19,345	18,794	-1.7
Physics	11,672	12,437	12,807	13,308	13,657	13,813	14,081	14,122	13,841	13,162	12,425	11,728	11,147	-19.3
Other physical sciences	333	376	374	344	342	334	393	428	466	517	486	395	389	16.5
Earth, atmospheric, and ocean sciences	15,420	15,066	14,371	13,867	13,643	13,984	14,480	15,347	15,805	16,042	15,805	15,280	14,644	4.7
Atmospheric sciences	964	961	952	940	912	929	968	1,089	1,112	1,109	1,072	1,086	1,092	17.5
Geosciences	10,294	9,819	8,998	8,463	8,052	7,692	7,567	7,744	7,785	7,741	7,608	7,323	6,997	-9.0
Oceanography	2,081	2,128	2,127	2,033	2,207	2,333	2,386	2,530	2,611	2,853	2,703	2,598	2,458	5.4
Other environmental sciences	2,081	2,158	2,294	2,431	2,472	3,030	3,559	3,984	4,297	4,339	4,422	4,273	4,097	35.2
Mathematical sciences, total	17,563	17,949	18,508	19,077	19,247	19,774	19,952	20,355	20,000	19,579	18,509	18,015	16,759	-15.2
Mathematics and applied mathematics	15,437	15,615	16,015	16,490	16,723	17,096	17,206	17,404	16,945	16,463	15,400	14,970	14,078	-17.7
Statistics	2,126	2,334	2,493	2,587	2,524	2,678	2,746	2,951	3,055	3,116	3,109	3,045	2,681	0.1
Computer sciences, total	29,769	31,349	32,051	32,227	32,482	34,257	34,610	36,293	36,189	34,128	33,432	34,592	36,010	5.1
Life sciences, total	103,635	105,661	106,036	108,084	111,862	116,348	121,849	128,992	136,929	143,633	148,280	148,898	148,405	27.6
Agricultural sciences, total	11,561	11,458	11,118	11,135	11,190	11,316	11,506	11,827	11,914	12,199	12,367	11,914	11,810	4.4
Biological sciences, total	46,112	46,765	46,747	47,565	48,852	49,989	51,778	54,177	56,452	58,143	58,736	58,128	57,135	14.3
Anatomy	993	973	1,016	1,056	1,078	1,000	1,051	1,030	1,027	1,079	1,056	1,111	1,094	9.4
Biochemistry	4,654	4,873	4,813	4,921	5,082	5,039	5,201	5,376	5,513	5,632	5,550	5,265	5,093	1.1
Biology	12,710	12,678	12,331	12,393	12,761	13,027	13,292	13,874	14,327	14,220	14,284	14,635	14,643	12.4
Biometry/epidemiology	1,360	1,434	1,556	1,682	1,722	1,871	2,032	2,365	2,658	2,710	2,812	3,001	2,900	55.0
Biophysics	441	547	591	592	655	642	697	751	780	794	845	833	748	16.5
Botany	3,157	3,123	2,979	2,912	2,826	2,733	2,694	2,689	2,714	2,748	2,609	2,504	2,402	-12.1
Cell biology	1,429	1,716	1,964	2,078	2,234	2,555	2,809	3,093	3,374	3,768	3,890	3,896	3,981	55.8
Ecology	1,028	1,022	963	999	1,084	1,136	1,180	1,301	1,410	1,566	1,680	1,615	1,659	46.0
Entomology/parasitology	1,342	1,306	1,244	1,240	1,181	1,173	1,171	1,193	1,247	1,263	1,241	1,234	1,161	-1.0
Genetics	1,120	1,262	1,314	1,289	1,365	1,408	1,520	1,639	1,785	1,699	1,700	1,729	1,760	25.0
Microbiology, immunology, and virology	4,445	4,371	4,452	4,773	4,827	4,873	4,928	4,972	5,068	5,141	5,072	4,963	4,854	-0.4
Nutrition	4,241	4,259	4,158	4,132	4,164	4,172	4,164	4,159	4,388	4,747	5,016	4,963	4,550	9.1
Pathology	1,305	1,323	1,369	1,333	1,369	1,354	1,449	1,456	1,575	1,707	1,670	1,656	1,674	23.6
Pharmacology	2,103	2,078	2,072	2,124	2,267	2,353	2,432	2,529	2,645	2,830	2,700	2,652	2,582	9.7
Physiology	2,211	2,220	2,213	2,220	2,206	2,236	2,332	2,317	2,372	2,378	2,540	2,377	2,298	2.8
Zoology	2,127	2,075	2,104	2,029	2,083	2,104	2,191	2,139	2,120	2,092	2,068	1,911	1,730	-17.8
Other biosciences	1,446	1,505	1,608	1,792	1,948	2,313	2,635	3,294	3,449	3,769	4,003	3,887	4,006	73.2
Health fields, total	45,962	47,438	48,171	49,384	51,820	55,043	58,565	62,988	68,563	73,291	77,177	78,856	79,460	44.4
Medical fields	9,221	9,244	9,809	10,101	10,232	10,950	11,707	12,594	14,184	15,027	15,521	15,320	15,234	39.1
Other health fields	36,741	38,194	38,362	39,283	41,588	44,093	46,858	50,394	54,379	58,264	61,656	63,536	64,226	45.7
Dentistry	797	908	1,022	1,048	1,004	956	1,016	1,121	1,135	1,199	1,251	1,291	1,434	50.0
Nursing	17,965	18,398	18,444	18,862	19,689	21,194	22,012	23,213	24,781	26,997	28,405	27,388	26,679	25.9
Pharmaceutical sciences	2,553	2,682	2,607	2,613	2,787	2,889	2,968	2,804	2,871	2,901	2,948	2,975	3,051	5.6
Speech pathology/audiology	7,761	7,774	7,314	7,479	7,911	8,354	8,945	9,791	10,740	11,473	12,092	12,973	13,320	59.4
Veterinary sciences	637	630	731	752	801	900	894	942	877	875	929	946	1,175	30.6
Other health related	7,028	7,802	8,244	8,529	9,396	9,800	11,023	12,523	13,975	14,819	16,031	17,963	18,567	89.5
Psychology, total	40,721	41,241	42,612	43,963	45,528	48,167	51,343	53,484	54,557	54,554	53,641	53,209	53,142	10.3
Psychology, general	104	118	267	15,443	19,408	20,108	19,555	18,802	18,887	18,297	17,666	16,894	17,375	-13.6
Clinical psychology	39,919	40,361	41,566	40,548	42,998	49,916	50,834	52,090	52,526	52,684	52,519	52,787	52,893	30.0
Other psychology	698	762	779	7,972	16,822	18,143	20,954	22,592	23,144	23,573	23,456	23,528	22,874	26.1
Social sciences, total	70,008	70,171	71,268	71,662	74,146	77,948	80,742	85,778	88,793	89,134	89,449	88,647	86,028	10.4
Agricultural economics	2,268	2,248	2,203	2,259	2,276	2,273	2,364	2,522	2,415	2,289	2,338	2,117	2,043	-10.1
Anthropology	5,631	5,805	5,835	5,945	6,128	6,479	6,731	7,123	7,361	7,665	7,693	7,773	7,558	16.7
Economics (except agricultural)	12,430	12,103	11,998	12,036	12,139	12,326	12,707	13,252	13,214	12,913	12,673	12,080	11,069	-10.2
Geography	2,936	3,055	3,223	3,208	3,479	3,530	3,760	4,102	4,378	4,502	4,371	4,331	4,287	21