Table 216. Graduate enrollment in science and engineering programs in degree-granting institutions, by field of study: United States and outlying areas, fall 1989 to fall 2001

Field of engineering or science	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	Percent change, 1990 to 2001
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Total, all sciences and engineering	**434,567**	**452,178**	**471,262**	**493,624**	**504,409**	**504,399**	**499,640**	**494,079**	**487,208**	**485,627**	**493,410**	**494,671**	**510,156**	**12.8**
Engineering, total	104,043	107,625	113,576	118,003	116,872	113,024	107,201	103,224	101,148	100,038	101,691	104,684	109,506	1.7
Aerospace	3,524	3,934	4,120	4,036	3,940	3,715	3,343	3,208	3,083	3,137	3,349	3,407	3,485	–11.4
Agricultural	1,043	946	983	1,008	1,018	1,061	1,037	1,012	941	925	934	899	907	–4.1
Biomedical	1,916	2,136	2,239	2,537	2,675	2,750	2,732	2,732	2,847	2,905	3,121	3,241	3,593	68.2
Chemical	6,460	6,735	7,127	7,397	7,554	7,639	7,452	7,408	7,288	7,093	6,883	7,093	6,913	2.6
Civil	14,909	15,542	17,398	19,572	19,583	19,925	19,218	18,528	17,193	16,517	16,226	16,494	16,604	6.8
Electrical	33,257	33,722	35,182	36,428	35,290	33,020	30,721	29,702	30,548	31,129	31,382	33,318	35,745	6.0
Engineering science	2,077	2,020	2,154	2,218	2,180	2,089	1,955	1,751	1,647	1,701	1,627	1,632	1,798	–11.0
Industrial	11,094	11,248	12,676	13,525	13,905	13,992	13,475	12,675	11,957	11,221	11,803	12,253	12,940	15.0
Mechanical	16,265	16,879	17,730	18,637	18,477	17,761	16,363	15,509	15,045	14,696	14,956	15,457	15,831	–6.2
Metallurgical/materials	4,594	4,941	5,160	5,512	5,410	5,228	4,956	4,747	4,688	4,680	4,481	4,377	4,721	–4.5
Mining	418	437	489	437	427	424	373	371	348	304	328	287	240	–45.1
Nuclear	1,323	1,278	1,282	1,286	1,306	1,246	1,154	980	868	821	830	792	801	–37.3
Petroleum	665	670	705	737	725	624	610	562	561	571	642	627	680	1.5
Other engineering	6,498	7,137	6,331	4,673	4,382	3,550	3,812	4,039	4,134	4,338	5,129	4,807	5,248	–26.5
All sciences, total	330,524	344,553	357,686	375,621	387,537	391,375	392,439	390,855	386,060	385,589	391,719	389,987	400,650	16.3
Physical sciences, total	33,616	34,075	34,710	35,348	35,328	34,466	33,399	32,333	31,105	30,575	30,691	30,463	30,988	–9.1
Astronomy	789	810	829	869	880	973	912	874	778	820	832	888	916	13.1
Chemistry	18,828	19,118	19,407	19,929	20,131	19,803	19,570	19,334	18,774	18,482	18,416	18,188	18,300	–4.3
Physics	13,657	13,813	14,081	14,122	13,841	13,162	12,425	11,728	11,147	10,809	10,869	10,836	11,264	–18.5
Other physical sciences	342	334	393	428	476	528	492	397	406	464	574	551	508	52.1
Earth, atmospheric, and ocean sciences	13,643	13,984	14,480	15,333	15,721	15,957	15,716	15,183	14,548	14,258	14,083	13,940	13,841	–1.0
Atmospheric sciences	912	929	968	1,089	1,112	1,109	1,072	1,086	1,092	965	913	963	924	–0.5
Geosciences	8,052	7,692	7,567	7,744	7,759	7,713	7,582	7,304	6,959	6,687	6,637	6,595	6,544	–14.9
Oceanography	2,207	2,333	2,386	2,530	2,627	2,870	2,723	2,615	2,479	2,562	2,624	2,668	2,585	10.8
Other environmental sciences	2,472	3,030	3,559	3,970	4,223	4,265	4,339	4,178	4,018	4,044	3,909	3,714	3,788	25.0
Mathematical sciences, total	19,247	19,774	19,952	20,355	20,000	19,573	18,504	18,008	16,719	16,485	16,257	15,646	16,663	–15.7
Mathematics and applied mathematics	16,723	17,096	17,206	17,404	16,945	16,457	15,386	14,948	14,027	13,827	13,521	12,819	13,594	–20.5
Statistics	2,524	2,678	2,746	2,951	3,055	3,116	3,118	3,060	2,692	2,658	2,736	2,827	3,069	14.6
Computer sciences, total	32,482	34,257	34,610	36,325	36,213	34,158	33,458	34,626	35,991	38,027	42,560	47,594	52,196	52.4
Life sciences, total	111,862	116,348	121,849	129,010	136,948	143,560	148,304	148,965	148,507	149,656	151,256	148,166	150,401	29.3
Agricultural sciences, total	11,190	11,316	11,506	11,841	11,950	12,242	12,422	11,974	11,852	11,844	11,988	11,684	11,911	5.3
Biological sciences, total	48,852	49,989	51,778	54,180	56,292	58,033	58,680	58,060	57,044	56,994	57,115	56,494	57,826	15.7
Anatomy	1,078	1,000	1,051	991	961	1,018	982	1,019	1,003	922	886	924	867	–13.3
Biochemistry	5,082	5,039	5,201	5,376	5,489	5,615	5,562	5,275	5,102	5,148	5,101	4,963	4,917	–2.4
Biology	12,761	13,027	13,292	13,874	14,330	14,208	14,280	14,611	14,646	14,277	13,989	13,410	13,355	2.5
Biometry/epidemiology	1,722	1,871	2,032	2,365	2,658	2,710	2,812	3,001	2,900	3,511	3,529	3,471	3,629	94.0
Biophysics	655	642	697	751	780	794	845	833	748	737	710	745	893	39.1
Botany	2,826	2,733	2,694	2,689	2,714	2,748	2,609	2,504	2,402	2,328	2,261	2,176	2,182	–20.2
Cell biology	2,234	2,555	2,809	3,132	3,440	3,829	3,994	4,022	4,111	4,206	4,465	4,647	4,768	86.6
Ecology	1,084	1,136	1,180	1,301	1,410	1,566	1,680	1,615	1,619	1,655	1,687	1,744	1,848	62.7
Entomology/parasitology	1,181	1,173	1,171	1,193	1,247	1,263	1,241	1,234	1,161	1,168	1,145	1,104	1,170	–0.3
Genetics	1,365	1,408	1,520	1,639	1,785	1,699	1,700	1,729	1,760	1,705	1,767	1,705	1,833	30.2
Microbiology, immunology, & virology	4,827	4,873	4,928	4,972	5,021	5,094	5,026	4,912	4,805	4,773	4,815	4,815	4,798	–1.5
Nutrition	4,164	4,172	4,164	4,159	4,388	4,791	5,071	4,918	4,604	4,486	4,508	4,430	4,429	6.2
Pathology	1,369	1,354	1,449	1,456	1,575	1,707	1,670	1,656	1,674	1,580	1,580	1,529	1,649	21.8
Pharmacology	2,267	2,353	2,432	2,532	2,651	2,839	2,710	2,663	2,597	2,730	2,757	2,959	3,052	29.7
Physiology	2,206	2,236	2,332	2,317	2,372	2,378	2,540	2,377	2,298	2,151	2,083	2,007	1,967	–12.0
Zoology	2,083	2,104	2,191	2,139	2,042	2,028	2,006	1,852	1,669	1,622	1,558	1,481	1,448	–31.2
Other biosciences	1,948	2,313	2,635	3,294	3,429	3,746	3,952	3,839	3,945	3,995	4,274	4,384	5,021	117.1
Health fields, total	51,820	55,043	58,565	62,989	68,706	73,285	77,202	78,931	79,611	80,818	82,153	79,988	80,664	46.5
Medical fields	10,232	10,950	11,707	12,594	14,233	15,065	15,566	15,396	15,503	16,690	17,355	16,533	17,518	60.0
Other health fields	41,588	44,093	46,858	50,395	54,473	58,220	61,636	63,535	64,108	64,128	64,798	63,455	63,146	43.2
Dentistry	1,004	956	1,016	1,121	1,228	1,298	1,338	1,388	1,491	1,518	1,467	1,430	1,494	56.3
Nursing	19,689	21,194	22,012	23,213	24,781	26,997	28,405	27,388	26,861	25,591	25,074	23,341	23,609	11.4
Pharmaceutical sciences	2,787	2,889	2,968	2,792	2,859	2,887	2,808	2,846	2,710	2,882	3,422	3,605	3,908	35.3
Speech pathology/audiology	7,911	8,354	8,945	9,791	10,740	11,356	11,982	12,857	13,212	13,198	13,600	13,655	13,193	57.9
Veterinary sciences	801	900	894	942	924	922	975	997	1,224	1,288	1,314	1,367	1,476	64.0
Other health related	9,396	9,800	11,023	12,536	13,941	14,760	16,128	18,059	18,610	19,651	19,921	20,057	19,466	98.6
Psychology, total	45,528	48,167	51,343	53,484	54,557	54,554	53,641	53,122	53,126	52,557	51,864	50,704	50,798	5.5
Psychology, general	19,408	20,108	19,555	18,802	18,962	18,356	17,636	16,832	17,246	17,095	16,235	15,725	16,022	–20.3
Clinical psychology	9,298	9,916	10,834	12,090	12,526	12,684	12,519	12,787	13,098	12,733	12,798	12,488	12,473	25.8
Other psychology	16,822	18,143	20,954	22,592	23,069	23,514	23,486	23,503	22,782	22,729	22,831	22,491	22,303	22.9
Social sciences, total	74,146	77,948	80,742	85,766	88,770	89,107	89,417	88,618	86,064	84,031	85,008	83,474	85,763	10.0
Agricultural economics	2,276	2,273	2,364	2,522	2,415	2,289	2,338	2,117	2,043	1,995	2,014	2,079	2,161	–4.9
Anthropology	6,128	6,479	6,731	7,123	7,361	7,665	7,693	7,773	7,560	7,577	7,633	7,633	7,491	15.6
Economics (except agricultural)	12,139	12,326	12,707	13,252	13,214	12,913	12,673	12,080	11,097	10,701	10,562	10,778	11,340	–8.0
Geography	3,479	3,530	3,760	4,102	4,378	4,502	4,371	4,331	4,287	4,326	4,250	4,044	4,276	21.1
History and philosophy of science	304	331	337	360	369	387	401	409	443	508	557	532	571	72.5
Linguistics	3,286	3,404	3,425	3,277	3,321	3,279	3,194	3,156	3,068	2,935	2,799	2,674	2,744	–19.4
Political science	29,194	30,582	31,707	33,797	35,076	34,317	34,298	33,252	32,083	30,828	31,381	31,179	31,850	4.1
Sociology	7,405	7,801	8,393	9,011	9,425	9,498	9,564	9,425	9,413	9,058	8,966	8,689	8,775	12.5
Sociology/anthropology	988	1,164	899	979	935	987	941	923	948	857	741	745	808	–30.6
Other social sciences	8,947	10,058	10,419	11,343	12,276	13,270	13,944	15,152	15,122	15,246	16,105	15,121	15,747	56.6

NOTE: Some data have been revised from previously published figures. Detail may not sum to totals due to rounding.

SOURCE: National Science Foundation, Division of Science Resources Studies, *Survey of Graduate Students and Postdoctorates in Science and Engineering,* 1989 through 2001. (This table was prepared August 2003.)