

TABLE 1-11a

**Master's student enrollment, by detailed fields: 2017–22**

(Number)

Detailed field	2017	2018	2019	2020	2021	2022
All fields	378,587	391,211	408,228	414,478	466,613	501,311
Science	229,169	241,327	259,795	267,904	305,796	331,983
Agricultural and veterinary sciences <sup>a</sup>	5,603	5,658	5,629	6,487	6,801	6,949
Agricultural sciences	5,603	5,658	5,629	5,589	5,790	6,165
Veterinary biomedical and clinical sciences <sup>b</sup>	na	na	na	898	1,011	784
Biological and biomedical sciences <sup>a</sup>	33,926	35,306	38,078	39,920	42,728	43,062
Biochemistry	791	743	808	889	1,005	911
Biology	8,791	8,696	8,635	8,381	8,294	7,969
Biomedical sciences	4,298	4,379	5,241	5,898	5,794	5,681
Biophysics	18	6	7	8	6	8
Biostatistics and bioinformatics	2,540	2,890	3,036	3,143	3,519	3,852
Biotechnology	1,893	1,953	3,157	3,143	3,395	3,916
Botany and plant biology	378	373	392	376	363	369
Cell, cellular biology, and anatomical sciences	926	919	927	954	1,210	1,137
Ecology and population biology	921	888	939	1,052	1,201	1,058
Epidemiology	2,577	2,669	2,776	3,153	3,623	3,844
Genetics	512	557	581	620	718	749
Microbiological sciences and immunology	1,037	1,254	1,370	1,649	2,011	2,026
Molecular biology	277	364	378	378	405	408
Neurobiology and neuroscience	318	304	362	545	591	515
Nutrition science	2,144	2,546	2,385	2,370	2,871	2,905
Pathology and experimental pathology	122	93	87	105	100	106
Pharmacology and toxicology	881	873	923	770	926	996
Physiology	2,229	2,288	2,594	3,044	2,898	2,891
Zoology and animal biology	759	829	891	869	927	861
Biological and biomedical sciences nec	2,514	2,682	2,589	2,573	2,871	2,860
Computer and information sciences	75,618	77,351	84,092	80,690	102,199	129,972
Computer science	22,786	22,966	24,628	22,670	30,361	42,092
Computer and information sciences <sup>c</sup>	30,217	30,568	33,698	27,044	35,308	45,098
Computer and information sciences <sup>d</sup>	NA	NA	NA	23,625	30,804	39,719
Artificial intelligence, informatics, and computer and information science topics <sup>d</sup>	NA	NA	NA	3,419	4,504	5,379
Computer and information sciences nec <sup>c</sup>	22,615	23,817	25,766	30,976	36,530	42,782
Computer and information systems security <sup>d</sup>	NA	NA	NA	7,023	8,401	9,254
Information science and studies <sup>d</sup>	NA	NA	NA	11,671	13,098	15,478
Information technology <sup>d</sup>	NA	NA	NA	5,618	7,527	10,601
Computer and information sciences nec <sup>d</sup>	NA	NA	NA	6,664	7,504	7,449
Geosciences, atmospheric sciences, and ocean sciences	6,006	5,629	5,327	5,277	5,520	5,186
Atmospheric sciences and meteorology	464	459	473	458	487	489
Geological and earth sciences	4,107	3,924	3,610	3,561	3,534	3,183
Ocean and marine sciences	1,275	1,246	1,244	1,258	1,499	1,514
Geosciences, atmospheric sciences, and ocean sciences nec	160	ne	ne	ne	ne	ne
Mathematics and statistics	16,568	18,073	19,594	18,284	20,639	20,798
Mathematics and applied mathematics <sup>c</sup>	10,387	11,212	11,933	11,058	13,063	13,002
Applied mathematics <sup>d</sup>	NA	NA	NA	6,678	8,899	9,097
Mathematics <sup>d</sup>	NA	NA	NA	4,380	4,164	3,905
Statistics	6,181	6,861	7,661	7,226	7,576	7,796
Multidisciplinary and interdisciplinary sciences <sup>c</sup>	6,923	7,414	8,203	10,980	11,994	16,931
Biological and physical sciences <sup>d</sup>	NA	NA	NA	993	874	899

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**Master's student enrollment, by detailed fields: 2017–22**

(Number)

Detailed field	2017	2018	2019	2020	2021	2022
Computational science <sup>d</sup>	NA	NA	NA	1,968	2,088	3,089
Data science and data analytics <sup>d</sup>	NA	NA	NA	2,124	2,358	6,000
International and global studies <sup>d</sup>	NA	NA	NA	1,341	1,267	1,083
Multidisciplinary and interdisciplinary sciences nec <sup>d</sup>	NA	NA	NA	4,554	5,407	5,860
Natural resources and conservation	7,311	7,691	8,066	8,793	10,012	9,807
Environmental science and studies	3,515	3,683	3,883	4,067	4,851	4,422
Forestry, natural resources, and conservation	3,796	4,008	4,183	4,726	5,161	5,385
Physical sciences	6,368	6,075	6,361	6,275	6,409	6,256
Astronomy and astrophysics	69	72	77	76	85	100
Chemistry	3,453	3,144	3,152	3,096	3,066	3,015
Materials sciences	448	449	539	464	439	402
Physics	2,182	2,173	2,164	2,141	2,278	2,253
Physical sciences nec	216	237	429	498	541	486
Psychology <sup>a</sup>	29,638	35,404	40,838	47,279	51,878	48,321
Clinical psychology	3,098	3,213	3,587	3,480	4,167	4,519
Counseling and applied psychology <sup>c</sup>	19,413	24,714	29,322	33,652	36,482	32,491
Applied psychology <sup>d</sup>	NA	NA	NA	17,673	19,517	20,091
Counseling psychology <sup>d</sup>	NA	NA	NA	15,979	16,965	12,400
Human development <sup>b</sup>	na	na	na	1,499	1,566	1,525
Psychology, general	5,905	6,178	6,357	6,826	7,329	7,346
Research and experimental psychology	1,222	1,299	1,572	1,822	2,334	2,440
Social sciences <sup>a</sup>	41,208	42,726	43,607	43,919	47,616	44,701
Agricultural and natural resource economics	806	779	700	603	672	485
Anthropology	2,363	2,302	2,233	2,167	2,292	2,173
Criminal justice and safety studies	3,869	4,506	4,917	5,674	5,602	5,223
Economics (except agricultural and natural resource)	5,238	5,427	6,084	6,114	6,882	6,734
Geography and cartography	2,696	2,717	2,660	2,745	3,147	2,807
Human development <sup>b</sup>	1,349	1,329	1,339	na	na	na
International relations and national security studies	6,755	6,826	6,657	7,322	8,308	7,833
Linguistics	1,237	1,175	1,153	1,164	1,188	1,159
Political science and government	2,979	2,706	2,897	3,072	3,270	2,925
Public policy analysis	4,718	5,882	6,297	6,352	7,290	6,701
Sociology and population studies	2,629	2,395	2,263	2,342	2,331	2,190
Social sciences, nec <sup>c</sup>	6,569	6,682	6,407	6,364	6,634	6,471
Area, ethnic, cultural, gender, and group studies <sup>d</sup>	NA	NA	NA	2,642	2,767	2,634
Criminology <sup>d</sup>	NA	NA	NA	1,308	1,272	1,180
Urban studies and affairs <sup>d</sup>	NA	NA	NA	907	827	671
Social sciences, other <sup>d</sup>	na	na	na	1,507	1,768	1,986
History and philosophy of science and technology <sup>e</sup>	25	31	32	na	na	na
Social sciences, nec <sup>c</sup>	6,544	6,651	6,375	na	na	na
Engineering	96,756	93,064	91,939	86,450	95,126	103,020
Aerospace, aeronautical, and astronautical engineering	3,322	3,342	3,701	4,326	5,065	5,263
Biological, biomedical, and biosystems engineering	4,108	4,282	4,424	4,536	5,192	5,177
Bioengineering and biomedical engineering	4,037	4,202	4,335	na	na	na
Biological and biosystems engineering	71	80	89	na	na	na
Chemical, petroleum, and chemical-related engineering	4,208	3,815	3,274	2,942	2,983	3,011
Chemical engineering	3,292	3,061	2,632	2,426	2,555	2,599
Petroleum engineering	916	754	642	516	428	412

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**Master's student enrollment, by detailed fields: 2017–22**

(Number)

Detailed field	2017	2018	2019	2020	2021	2022
Civil, environmental, transportation and related engineering fields <sup>c</sup>	13,506	12,729	11,873	10,819	11,730	12,621
Civil engineering <sup>d</sup>	13,506	12,729	11,873	8,703	9,352	9,692
Architectural, environmental, construction and surveying engineering <sup>d</sup>	NA	NA	NA	2,116	2,378	2,929
Electrical, electronics, communications and computer engineering	29,816	28,108	28,177	25,312	27,695	32,316
Electrical, electronics, and communications engineering <sup>c</sup>	29,816	28,108	28,177	16,746	17,866	19,757
Computer engineering <sup>d</sup>	NA	NA	NA	8,566	9,829	12,559
Industrial, manufacturing, systems engineering and operations research	12,272	12,389	11,912	11,030	11,949	12,579
Industrial and manufacturing engineering <sup>c</sup>	12,272	12,389	11,912	5,569	5,284	6,349
Systems engineering and operations research <sup>d</sup>	NA	NA	NA	5,461	6,665	6,230
Mechanical engineering	16,279	15,434	14,861	14,305	15,718	16,029
Metallurgical, mining, materials and related engineering fields	2,427	2,395	2,266	2,299	2,518	2,545
Metallurgical and materials engineering <sup>e</sup>	2,115	2,079	1,974	na	na	na
Mining engineering <sup>e</sup>	312	316	292	na	na	na
Other engineering	10,818	10,570	11,451	10,881	12,276	13,479
Agricultural engineering	505	371	494	404	519	389
Engineering mechanics, physics, and science	679	729	852	740	782	762
Nuclear engineering	444	407	418	441	484	493
Engineering, other	na	na	na	9,296	10,491	11,835
Engineering, nec	9,146	9,016	9,638	na	na	na
Nanotechnology	44	47	49	na	na	na
Health	52,662	56,820	56,494	60,124	65,691	66,308
Clinical medicine <sup>a</sup>	25,283	27,494	26,251	29,748	34,021	33,251
Medical clinical sciences and clinical and medical laboratory sciences	NA	NA	NA	927	1,287	1,168
Public health	24,570	26,673	25,403	28,821	32,734	32,083
Clinical medicine nec	713	821	848	ne	ne	ne
Other health	27,379	29,326	30,243	30,376	31,670	33,057
Communication disorders sciences	14,748	15,803	16,346	16,762	17,406	17,768
Dental sciences	1,450	1,478	1,315	1,366	1,500	1,545
Nursing science	1,550	1,902	1,861	1,488	1,662	1,535
Pharmaceutical sciences	1,078	1,075	1,187	1,619	1,939	2,142
Veterinary biomedical and clinical sciences <sup>b</sup>	458	637	881	na	na	na
Other health nec <sup>c</sup>	na	na	na	9,141	9,163	10,067
Kinesiology and exercise science <sup>d</sup>	NA	NA	NA	4,977	4,962	4,743
Other health nec <sup>d</sup>	8,095	8,431	8,653	4,164	4,201	5,324

na = not applicable; NA = not available (data not collected at this level of detail); ne = not eligible for graduate student reporting; the fields collected have changed over time.

nec = not elsewhere classified.

<sup>a</sup> Broad field is not comparable between 2019 and 2020 due to changes in detailed fields.

<sup>b</sup> Detailed field moved between broad fields between 2019 and 2020.

<sup>c</sup> Detailed field split into multiple fields in 2020; data after 2020 represent the aggregate counts of all the new detailed fields.

<sup>d</sup> New detailed field in 2020.

<sup>e</sup> Code reported under a different detailed field code in 2020 and later years.

**Note(s):**

Percentages may not add to total because of rounding. Detailed fields under clinical medicine only list fields where graduate students can be reported. Graduate student data in this table include master's students in health sciences. For more information on the comparability of these counts to other data published by the National Center for Science and Engineering Statistics, see the "Technical Notes." Field titles match the 2020, and later titles in the few cases where field titles changed. Prior to 2020, there were no broad fields in engineering. All fields have been moved to match the current broad field organization. For information on the current of fields and codes in the Survey of Graduate Students and Postdoctorates in Science and Engineering, see technical tables A-16 and A-17.

**Source(s):**

National Center for Science and Engineering Statistics, Survey of Graduate Students and Postdoctorates in Science and Engineering.