

TABLE 4-4a

**Citizenship, ethnicity, and race of graduate students, by detailed field: 2020**

(Number and percent)

Detailed field	Total		Hispanic or Latino		Not Hispanic or Latino												Unknown ethnicity and race		Temporary visa holders	
					American Indian or Alaska Native		Asian		Black or African American		Native Hawaiian or Other Pacific Islander		White		More than one race					
	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent
All detailed fields	697,813	100.0	62,679	100.0	2,042	100.0	53,094	100.0	41,916	100.0	778	100.0	284,055	100.0	17,579	100.0	24,908	100.0	210,762	100.0
Science	464,646	66.6	43,705	69.7	1,468	71.9	34,812	65.6	29,051	69.3	553	71.1	195,406	68.8	12,244	69.7	17,720	71.1	129,687	61.5
Agricultural and veterinary sciences	10,800	1.5	823	1.3	27	1.3	335	0.6	378	0.9	15	1.9	5,743	2.0	231	1.3	292	1.2	2,956	1.4
Agricultural sciences	9,380	1.3	724	1.2	25	1.2	279	0.5	334	0.8	13	1.7	4,939	1.7	198	1.1	232	0.9	2,636	1.3
Veterinary biomedical and clinical sciences	1,420	0.2	99	0.2	2	0.1	56	0.1	44	0.1	2	0.3	804	0.3	33	0.2	60	0.2	320	0.2
Biological and biomedical sciences	94,825	13.6	9,442	15.1	297	14.5	9,520	17.9	6,049	14.4	137	17.6	44,974	15.8	2,851	16.2	3,447	13.8	18,108	8.6
Biochemistry	5,537	0.8	591	0.9	22	1.1	469	0.9	218	0.5	12	1.5	2,532	0.9	151	0.9	135	0.5	1,407	0.7
Biology	15,649	2.2	1,737	2.8	53	2.6	999	1.9	942	2.2	30	3.9	8,342	2.9	464	2.6	507	2.0	2,575	1.2
Biomedical sciences	10,412	1.5	1,135	1.8	30	1.5	1,647	3.1	1,311	3.1	23	3.0	4,314	1.5	336	1.9	309	1.2	1,307	0.6
Biophysics	868	0.1	68	0.1	2	0.1	110	0.2	14	*	1	0.1	349	0.1	19	0.1	30	0.1	275	0.1
Biostatistics and bioinformatics	6,482	0.9	306	0.5	13	0.6	863	1.6	193	0.5	3	0.4	2,064	0.7	146	0.8	243	1.0	2,651	1.3
Biotechnology	3,244	0.5	357	0.6	8	0.4	460	0.9	346	0.8	3	0.4	1,257	0.4	117	0.7	151	0.6	545	0.3
Botany and plant biology	1,631	0.2	147	0.2	3	0.1	70	0.1	34	0.1	4	0.5	787	0.3	55	0.3	51	0.2	480	0.2
Cell, cellular biology, and anatomical sciences	5,962	0.9	679	1.1	28	1.4	622	1.2	231	0.6	7	0.9	2,731	1.0	193	1.1	195	0.8	1,276	0.6
Ecology and population biology	3,777	0.5	313	0.5	15	0.7	137	0.3	115	0.3	7	0.9	2,413	0.8	113	0.6	149	0.6	515	0.2
Epidemiology	5,185	0.7	513	0.8	10	0.5	701	1.3	439	1.0	2	0.3	2,097	0.7	154	0.9	192	0.8	1,077	0.5
Genetics	2,802	0.4	251	0.4	13	0.6	261	0.5	102	0.2	4	0.5	1,467	0.5	81	0.5	66	0.3	557	0.3
Microbiological sciences and immunology	5,773	0.8	661	1.1	22	1.1	517	1.0	292	0.7	4	0.5	2,984	1.1	175	1.0	254	1.0	864	0.4
Molecular biology	1,618	0.2	195	0.3	3	0.1	182	0.3	68	0.2	0	0.0	716	0.3	42	0.2	52	0.2	360	0.2
Neurobiology and neuroscience	5,820	0.8	655	1.0	19	0.9	586	1.1	252	0.6	2	0.3	2,980	1.0	195	1.1	192	0.8	939	0.4
Nutrition science	3,359	0.5	292	0.5	7	0.3	243	0.5	152	0.4	7	0.9	1,949	0.7	107	0.6	111	0.4	491	0.2
Pathology and experimental pathology	858	0.1	78	0.1	5	0.2	72	0.1	43	0.1	1	0.1	362	0.1	29	0.2	60	0.2	208	0.1
Pharmacology and toxicology	2,944	0.4	263	0.4	9	0.4	318	0.6	206	0.5	3	0.4	1,300	0.5	94	0.5	117	0.5	634	0.3
Physiology	5,802	0.8	476	0.8	14	0.7	634	1.2	478	1.1	5	0.6	2,798	1.0	164	0.9	295	1.2	938	0.4
Zoology and animal biology	2,047	0.3	143	0.2	6	0.3	55	0.1	49	0.1	0	0.0	1,321	0.5	61	0.3	80	0.3	332	0.2
Biological and biomedical sciences nec	5,055	0.7	582	0.9	15	0.7	574	1.1	564	1.3	19	2.4	2,211	0.8	155	0.9	258	1.0	677	0.3
Computer and information sciences	98,864	14.2	4,989	8.0	127	6.2	10,699	20.2	5,639	13.5	70	9.0	25,311	8.9	1,789	10.2	3,172	12.7	47,068	22.3
Artificial intelligence, informatics, and computer and information science topics	4,375	0.6	233	0.4	13	0.6	354	0.7	271	0.6	1	0.1	1,300	0.5	71	0.4	129	0.5	2,003	1.0
Computer and information sciences	29,107	4.2	1,365	2.2	25	1.2	3,745	7.1	915	2.2	17	2.2	7,910	2.8	519	3.0	542	2.2	14,069	6.7
Computer and information systems security	7,293	1.0	724	1.2	22	1.1	822	1.5	1,358	3.2	14	1.8	2,689	0.9	210	1.2	407	1.6	1,047	0.5
Computer science	32,328	4.6	920	1.5	18	0.9	3,098	5.8	635	1.5	9	1.2	5,936	2.1	455	2.6	1,074	4.3	20,183	9.6

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(Number and percent)

Detailed field	Total		Hispanic or Latino		Not Hispanic or Latino												Unknown ethnicity and race		Temporary visa holders	
					American Indian or Alaska Native		Asian		Black or African American		Native Hawaiian or Other Pacific Islander		White		More than one race					
	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent
Information science and studies	12,916	1.9	881	1.4	25	1.2	1,479	2.8	1,530	3.7	18	2.3	4,156	1.5	263	1.5	553	2.2	4,011	1.9
Information technology	6,023	0.9	445	0.7	14	0.7	608	1.1	518	1.2	6	0.8	1,466	0.5	151	0.9	206	0.8	2,609	1.2
Computer and information sciences nec	6,822	1.0	421	0.7	10	0.5	593	1.1	412	1.0	5	0.6	1,854	0.7	120	0.7	261	1.0	3,146	1.5
Geosciences, atmospheric sciences, and ocean sciences	11,792	1.7	943	1.5	31	1.5	387	0.7	267	0.6	8	1.0	7,036	2.5	366	2.1	391	1.6	2,363	1.1
Atmospheric sciences and meteorology	1,305	0.2	62	0.1	0	0.0	30	0.1	31	0.1	0	0.0	739	0.3	34	0.2	46	0.2	363	0.2
Geological and earth sciences	7,726	1.1	638	1.0	29	1.4	263	0.5	180	0.4	3	0.4	4,566	1.6	225	1.3	219	0.9	1,603	0.8
Ocean and marine sciences	2,761	0.4	243	0.4	2	0.1	94	0.2	56	0.1	5	0.6	1,731	0.6	107	0.6	126	0.5	397	0.2
Geosciences, atmospheric sciences, and ocean sciences nec	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne
Mathematics and statistics	31,971	4.6	1,864	3.0	36	1.8	2,575	4.8	777	1.9	12	1.5	10,392	3.7	546	3.1	948	3.8	14,821	7.0
Applied mathematics	8,889	1.3	479	0.8	7	0.3	613	1.2	203	0.5	1	0.1	2,261	0.8	152	0.9	252	1.0	4,921	2.3
Mathematics	12,469	1.8	926	1.5	19	0.9	800	1.5	331	0.8	4	0.5	5,307	1.9	245	1.4	410	1.6	4,427	2.1
Statistics	10,613	1.5	459	0.7	10	0.5	1,162	2.2	243	0.6	7	0.9	2,824	1.0	149	0.8	286	1.1	5,473	2.6
Multidisciplinary and interdisciplinary studies	14,533	2.1	1,333	2.1	29	1.4	1,281	2.4	955	2.3	17	2.2	6,008	2.1	370	2.1	513	2.1	4,027	1.9
Biological and physical sciences	1,808	0.3	173	0.3	3	0.1	212	0.4	111	0.3	8	1.0	769	0.3	45	0.3	114	0.5	373	0.2
Computational science	2,266	0.3	138	0.2	1	*	234	0.4	77	0.2	1	0.1	848	0.3	42	0.2	47	0.2	878	0.4
Data science and data analytics	2,166	0.3	137	0.2	2	0.1	210	0.4	92	0.2	2	0.3	642	0.2	40	0.2	56	0.2	985	0.5
International and global studies	1,514	0.2	285	0.5	5	0.2	108	0.2	138	0.3	0	0.0	671	0.2	55	0.3	41	0.2	211	0.1
Multidisciplinary and interdisciplinary studies nec	6,779	1.0	600	1.0	18	0.9	517	1.0	537	1.3	6	0.8	3,078	1.1	188	1.1	255	1.0	1,580	0.7
Natural resources and conservation	12,498	1.8	1,156	1.8	123	6.0	368	0.7	404	1.0	33	4.2	8,017	2.8	387	2.2	413	1.7	1,597	0.8
Environmental science and studies	5,866	0.8	677	1.1	57	2.8	212	0.4	210	0.5	24	3.1	3,502	1.2	168	1.0	222	0.9	794	0.4
Forestry, natural resources, and conservation	6,632	1.0	479	0.8	66	3.2	156	0.3	194	0.5	9	1.2	4,515	1.6	219	1.2	191	0.8	803	0.4
Physical sciences	42,616	6.1	3,029	4.8	79	3.9	2,496	4.7	1,096	2.6	17	2.2	17,935	6.3	946	5.4	1,149	4.6	15,869	7.5
Astronomy and astrophysics	1,506	0.2	134	0.2	4	0.2	113	0.2	38	0.1	0	0.0	767	0.3	63	0.4	40	0.2	347	0.2
Chemistry	22,485	3.2	1,769	2.8	44	2.2	1,428	2.7	663	1.6	12	1.5	9,483	3.3	481	2.7	622	2.5	7,983	3.8
Materials sciences	1,492	0.2	91	0.1	2	0.1	114	0.2	51	0.1	1	0.1	465	0.2	13	0.1	47	0.2	708	0.3
Physics	16,126	2.3	995	1.6	28	1.4	810	1.5	278	0.7	4	0.5	6,719	2.4	357	2.0	402	1.6	6,533	3.1
Physical sciences nec	1,007	0.1	40	0.1	1	*	31	0.1	66	0.2	0	0.0	501	0.2	32	0.2	38	0.2	298	0.1
Psychology	68,394	9.8	11,776	18.8	302	14.8	3,445	6.5	7,044	16.8	124	15.9	35,344	12.4	2,558	14.6	3,993	16.0	3,808	1.8
Applied psychology	22,506	3.2	4,495	7.2	85	4.2	1,142	2.2	2,122	5.1	44	5.7	11,622	4.1	774	4.4	1,234	5.0	988	0.5
Clinical psychology	7,148	1.0	1,418	2.3	24	1.2	430	0.8	471	1.1	18	2.3	3,658	1.3	378	2.2	477	1.9	274	0.1
Counseling psychology	17,339	2.5	3,025	4.8	104	5.1	640	1.2	2,655	6.3	34	4.4	8,394	3.0	577	3.3	1,567	6.3	343	0.2

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					American Indian or Alaska Native		Asian		Black or African American		Native Hawaiian or Other Pacific Islander		White		More than one race					
	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent
Human development	2,241	0.3	256	0.4	5	0.2	95	0.2	239	0.6	4	0.5	1,288	0.5	77	0.4	81	0.3	196	0.1
Psychology, general	13,427	1.9	1,970	3.1	62	3.0	717	1.4	1,214	2.9	19	2.4	7,505	2.6	568	3.2	478	1.9	894	0.4
Research and experimental psychology	5,733	0.8	612	1.0	22	1.1	421	0.8	343	0.8	5	0.6	2,877	1.0	184	1.0	156	0.6	1,113	0.5
Social sciences	78,353	11.2	8,350	13.3	417	20.4	3,706	7.0	6,442	15.4	120	15.4	34,646	12.2	2,200	12.5	3,402	13.7	19,070	9.0
Agricultural and natural resource economics	1,242	0.2	60	0.1	4	0.2	36	0.1	27	0.1	0	0.0	464	0.2	15	0.1	25	0.1	611	0.3
Anthropology	6,463	0.9	712	1.1	68	3.3	226	0.4	223	0.5	6	0.8	3,671	1.3	251	1.4	327	1.3	979	0.5
Area, ethnic, cultural, gender, and group studies	5,124	0.7	907	1.4	123	6.0	288	0.5	620	1.5	29	3.7	1,781	0.6	218	1.2	203	0.8	955	0.5
Criminal justice and safety studies	6,662	1.0	964	1.5	30	1.5	154	0.3	1,366	3.3	14	1.8	3,274	1.2	231	1.3	474	1.9	155	0.1
Criminology	1,626	0.2	305	0.5	6	0.3	55	0.1	203	0.5	2	0.3	868	0.3	58	0.3	59	0.2	70	*
Economics (except agricultural and natural resource)	14,073	2.0	656	1.0	15	0.7	737	1.4	350	0.8	12	1.5	3,704	1.3	166	0.9	333	1.3	8,100	3.8
Geography and cartography	4,397	0.6	404	0.6	33	1.6	161	0.3	157	0.4	5	0.6	2,502	0.9	116	0.7	167	0.7	852	0.4
International relations and national security studies	7,730	1.1	929	1.5	15	0.7	400	0.8	606	1.4	13	1.7	3,939	1.4	246	1.4	510	2.0	1,072	0.5
Linguistics	2,850	0.4	258	0.4	28	1.4	163	0.3	73	0.2	2	0.3	1,223	0.4	85	0.5	119	0.5	899	0.4
Political science and government	8,438	1.2	804	1.3	25	1.2	344	0.6	533	1.3	12	1.5	4,171	1.5	236	1.3	349	1.4	1,964	0.9
Public policy analysis	8,899	1.3	895	1.4	35	1.7	620	1.2	891	2.1	11	1.4	4,089	1.4	239	1.4	395	1.6	1,724	0.8
Sociology and population studies	7,409	1.1	1,106	1.8	25	1.2	360	0.7	858	2.0	8	1.0	3,344	1.2	247	1.4	275	1.1	1,186	0.6
Urban studies and affairs	1,312	0.2	149	0.2	0	0.0	74	0.1	215	0.5	0	0.0	616	0.2	28	0.2	56	0.2	174	0.1
Social sciences, other	2,128	0.3	201	0.3	10	0.5	88	0.2	320	0.8	6	0.8	1,000	0.4	64	0.4	110	0.4	329	0.2
Engineering	157,729	22.6	9,644	15.4	239	11.7	12,020	22.6	4,583	10.9	101	13.0	50,847	17.9	3,143	17.9	3,826	15.4	73,326	34.8
Aerospace, aeronautical, and astronautical engineering	6,971	1.0	532	0.8	14	0.7	608	1.1	163	0.4	10	1.3	3,552	1.3	233	1.3	188	0.8	1,671	0.8
Biological, biomedical, and biosystems engineering	12,775	1.8	956	1.5	22	1.1	1,690	3.2	450	1.1	14	1.8	4,953	1.7	399	2.3	406	1.6	3,885	1.8
Chemical, petroleum, and chemical-related engineering	10,554	1.5	506	0.8	16	0.8	821	1.5	255	0.6	4	0.5	3,281	1.2	205	1.2	197	0.8	5,269	2.5
Chemical engineering	9,457	1.4	469	0.7	14	0.7	781	1.5	219	0.5	4	0.5	3,118	1.1	189	1.1	171	0.7	4,492	2.1
Petroleum engineering	1,097	0.2	37	0.1	2	0.1	40	0.1	36	0.1	0	0.0	163	0.1	16	0.1	26	0.1	777	0.4
Civil, environmental, transportation and related engineering fields	18,304	2.6	1,391	2.2	46	2.3	1,060	2.0	509	1.2	17	2.2	5,962	2.1	347	2.0	469	1.9	8,503	4.0
Civil engineering	15,220	2.2	1,136	1.8	37	1.8	870	1.6	399	1.0	13	1.7	4,793	1.7	276	1.6	375	1.5	7,321	3.5
Architectural, environmental, construction and surveying engineering	3,084	0.4	255	0.4	9	0.4	190	0.4	110	0.3	4	0.5	1,169	0.4	71	0.4	94	0.4	1,182	0.6
Electrical, electronics, communications and computer engineering	43,032	6.2	1,918	3.1	35	1.7	3,302	6.2	974	2.3	8	1.0	9,316	3.3	595	3.4	930	3.7	25,954	12.3
Electrical, electronics, and communications engineering	31,440	4.5	1,445	2.3	23	1.1	2,380	4.5	690	1.6	4	0.5	7,211	2.5	439	2.5	687	2.8	18,561	8.8



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(Number and percent)

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					American Indian or Alaska Native		Asian		Black or African American		Native Hawaiian or Other Pacific Islander		White		More than one race						
	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	Number	Percent	
Surgery	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne
Clinical medicine nec	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne	ne
Other health	40,894	5.9	4,716	7.5	111	5.4	2,692	5.1	3,156	7.5	55	7.1	23,127	8.1	1,049	6.0	1,544	6.2	4,444	2.1	
Communication disorders sciences	17,606	2.5	2,429	3.9	52	2.5	842	1.6	763	1.8	17	2.2	11,996	4.2	465	2.6	694	2.8	348	0.2	
Dental sciences	1,583	0.2	94	0.1	2	0.1	231	0.4	61	0.1	2	0.3	620	0.2	27	0.2	104	0.4	442	0.2	
Kinesiology and exercise science	6,001	0.9	846	1.3	21	1.0	168	0.3	682	1.6	17	2.2	3,333	1.2	212	1.2	162	0.7	560	0.3	
Nursing science	4,847	0.7	362	0.6	16	0.8	263	0.5	631	1.5	5	0.6	2,933	1.0	96	0.5	169	0.7	372	0.2	
Pharmaceutical sciences	4,512	0.6	261	0.4	4	0.2	407	0.8	274	0.7	3	0.4	1,367	0.5	103	0.6	129	0.5	1,964	0.9	
Other health nec	6,345	0.9	724	1.2	16	0.8	781	1.5	745	1.8	11	1.4	2,878	1.0	146	0.8	286	1.1	758	0.4	

\* = value &lt; 0.05%; ne = not eligible.

nec = not elsewhere classified.

<sup>a</sup> Clinical medicine includes graduate students in public health and in medical clinical sciences and clinical and medical laboratory sciences.**Note(s):**

Percentages may not add to total because of rounding. Ethnicity and race data are available only for U.S. citizens and permanent residents. For more information on the mapping of Survey of Graduate Students and Postdoctorates in Science and Engineering fields and codes, see technical table A-17.

**Source(s):**

National Center for Science and Engineering Statistics, Survey of Graduate Students and Postdoctorates in Science and Engineering, 2020.